JH CRUZE

OWNER'S HANDBOOK

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GM Holden Ltd, ABN 84 006 893 232 (hereinafter Holden)

Change of name, address or ownership

In the event of a Safety Recall, or for various reasons, Holden may need to contact you as the owner of this vehicle.

If you have recently changed your address, or name, or purchased this vehicle second-hand, please help us to help you by taking a few minutes to fill in and mail the forms at the beginning of the Service/warranty booklet.

For information about GM Holden's privacy policy or to update owner details online, please visit Holden's website at www.holden.com.au

Note Please refer to the inside front cover of the Service/ warranty booklet for the Vehicle Identification Certificate.

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Contents

Introduction 2
In brief 4
Keys, doors and windows 19
Seats, restraints 33
Storage 48
Instruments and controls 57
Lighting 78
Climate control 83
Driving and operating 92
Vehicle care 117
Service and maintenance 160
Technical data 164
Customer information 176
Index 178

Introduction

We thank you for choosing Holden and want to assure you of our continuing interest in your driving pleasure and satisfaction.

This handbook applies to the current Cruze model. Therefore, due to different models and options, you may find reference in this Handbook to some equipment not fitted to your own vehicle.

Please note that all information, illustrations and specifications in this Handbook are based on the latest production information available at the time of printing. Holden reserves the right to make changes at any time without notice and without incurring any obligation.

Introduction

Your vehicle is a designed combination of advanced technology, safety, environmental friendliness and economy.

This Owner's Manual provides you with all the necessary information to enable you to drive your vehicle safely and efficiently.

Make sure your passengers are aware of the possible risk of accident and injury which may result from improper use of the vehicle.

Using this manual

- The "In brief" section will give you an initial overview.
- The table of contents at the beginning of this manual and within each chapter shows where the information is located.
- The index will enable you to search for specific information.
- Directional data, e.g. left or right, or front or back, always relate to the direction of travel.
- Depending on the model variant, integrated special equipment and accessories, the scope of equipment of your vehicle can differ from the descriptions in this Owner's Manual.
- iPod® is a registered trademark of Apple Inc.
- Zune® is a registered trademark of Microsoft Corporation.

Danger, Warnings and Cautions

⚠Danger

Text marked ⚠**Danger** provides information on risk of fatal injury. Disregarding this information may endanger life.

⚠Warning

Text marked ⚠**Warning** provides information on risk of accident or injury. Disregarding this information may lead to injury.

Caution

Text marked **Caution** provides information on possible damage to the vehicle. Disregarding this information may lead to vehicle damage.

Symbols

Page references are indicated with ⇨. ⇨ means "see page".

In brief

Initial drive information

Vehicle unlocking

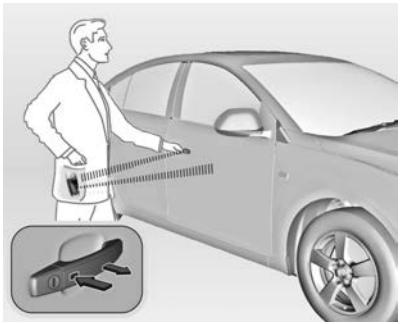
Radio remote control

Press button to unlock the doors and boot compartment. Open the doors by pulling the handles, to open the boot compartment, press the button under the boot lid moulding.

Press button, only the boot lid is unlocked and opens.

Remote control ⇨ 19, Central locking system ⇨ 21, Load compartment ⇨ 25.

Electronic key



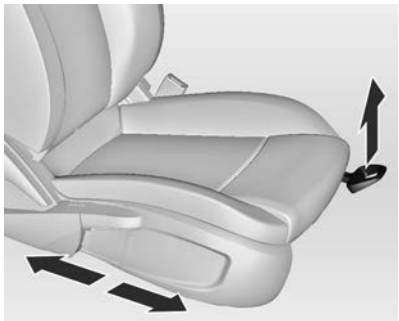
When in possession of the electronic key, press switch on door handle to unlock the vehicle and pull the door handle to open the door. To open the boot lid, press the button under the moulding.

Electronic key system ⇨ 20.

Seat adjustment

⚠Warning
Only drive with the seat correctly adjusted.

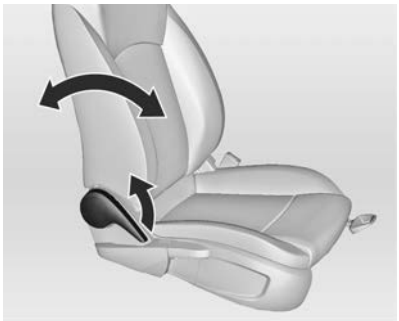
Seat positioning



Pull handle, slide seat, release handle.

Seat adjustment ⇨ 35, Seat position ⇨ 34.

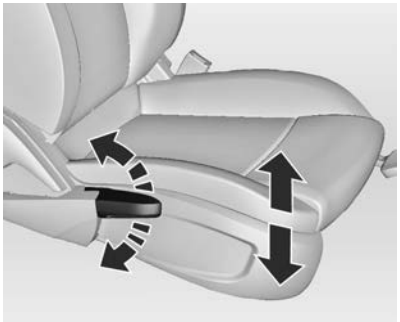
Seat backrests



Pull lever, adjust inclination and release lever. Allow the seat to engage audibly. Do not lean on backrest when adjusting.

Seat adjustment ⇨ 35, Seat position ⇨ 34.

Seat height

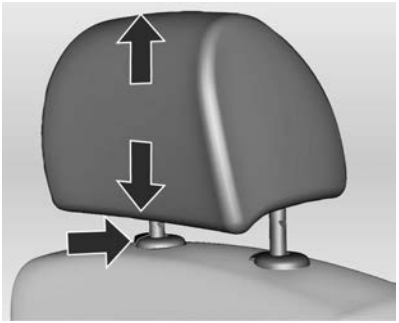


Lever pumping motion

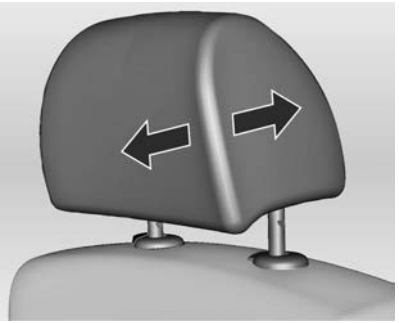
up = higher
down = lower

Seats ⇨ 35, Seat position ⇨ 34.

Head restraint adjustment



For height adjustment, pull the head restraint upward. To move down press the catch and push the head restraint downwards.



For horizontal adjustment, pull the head restraint forward, it engages in 3 positions. To bring into rear position automatically, pull head restraint close forward.

Head restraints ⇨ 33.

Seat belt

Pull out the seat belt and engage in belt buckle. The seat belt must not be twisted and must fit close against the body. The backrest must not be tilted back too far (maximum approx. 25 °).

To release belt, press red button on belt buckle.

Seat belts ⇨ 37, Airbag system ⇨ 40, Seat position ⇨ 34.

Mirror adjustment

Interior mirror

Adjust the lever on the underside to reduce glare.

Interior mirror ⇨ 30.

Exterior mirrors

Select the relevant exterior mirror and adjust.

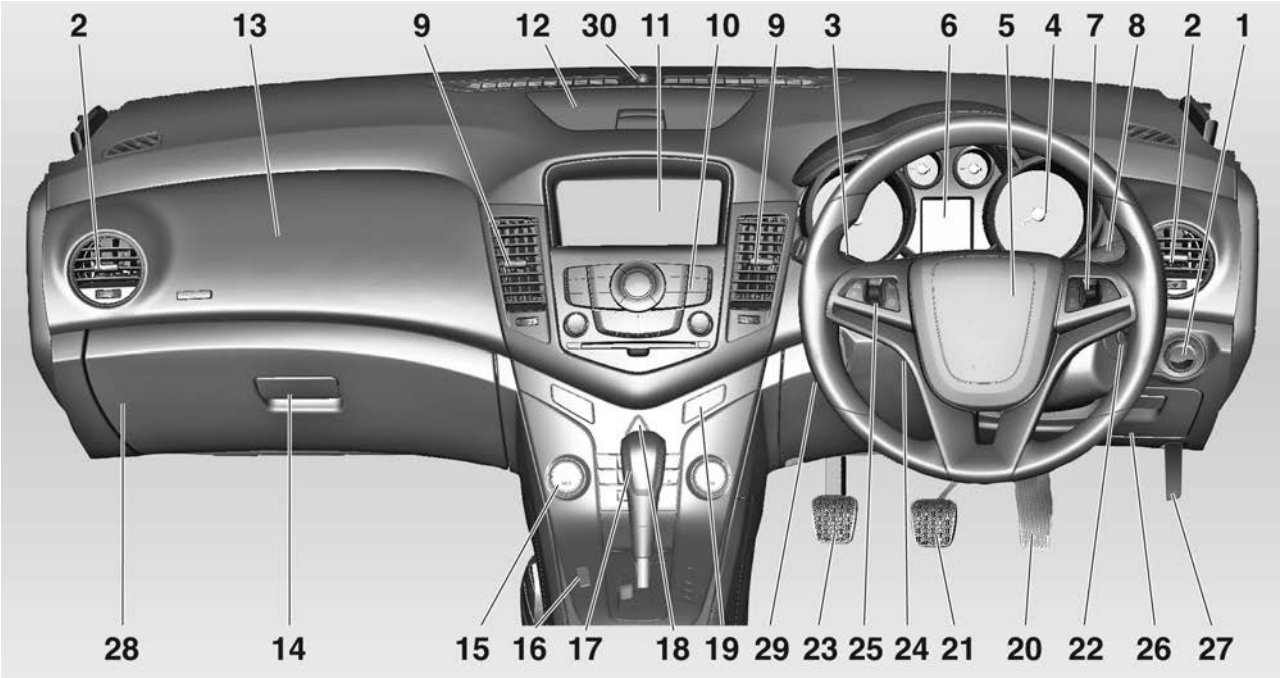
Electric adjustment ⇨ 29, Convex exterior mirrors ⇨ 29, Folding exterior mirrors ⇨ 29, Heated exterior mirrors ⇨ 29.

Steering wheel adjustment

Unlock lever, adjust steering wheel, then engage lever and ensure it is fully locked. Do not adjust steering wheel unless vehicle is stationary and steering wheel lock has been released.

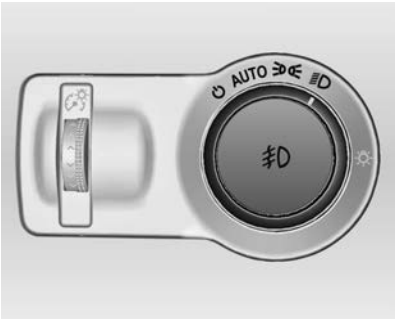
Airbag system ⇨ 40, Ignition positions ⇨ 93.

Instrument panel overview



1 Light switch 78
Front fog lights 80
Instrument illumination 81
2 Side air vents 89
3 Windscreen wipers, windscreen washer system, rear wiper, rear washer system 58
4 Speedometer 61
5 Horn 58
Driver's airbag 41
6 Driver Information Centre 70
7 Steering wheel control for Infotainment system 57
8 Turn signals, headlight flash, low beam and high beam 80
Exit lighting 82
Driver Information Centre 70
9 Centre air vents 89
10 Infotainment system
11 Info-Display 71
12 Storage 48
13 Front passenger airbag 41
14 Glovebox 49
15 Climate control system 83
16 Traction control system 103
Electronic Stability Control . 103
17 Shift lever, automatic transmission 97
Manual transmission 101
18 Hazard warning flashers 79
19 Central locking system 21
20 Accelerator pedal 92
21 Brake pedal 101
22 Ignition switch with steering wheel lock 93
23 Clutch pedal 92
24 Steering wheel adjustment . . 57
25 Cruise Control 104
26 Storage compartment 48
27 Bonnet release lever 118
28 Internal fuse compartment . . 140
29 Start/Stop button, Electronic key system 20
30 Anti-theft alarm system status LED 27

Exterior lighting



Turn

AUTO = Automatic light control: Headlights are switched on and off automatically depending on external light conditions.

⏻ = activation or deactivation of the automatic light control, switch turns back to **AUTO**

≡D = parking lights

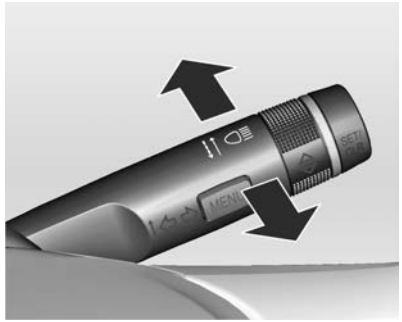
≡D = headlights and parking lights

Press

≡D = front fog lights (If fitted)

Lighting ⇨ 78.

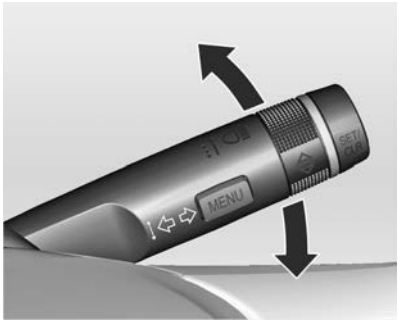
Headlight flash, high beam and low beam



headlight flash	=	pull lever
high beam	=	push lever
low beam	=	pull lever from high beam position

High beam ⇨ 79, Headlight flash ⇨ 79, Automatic light control ⇨ 78.

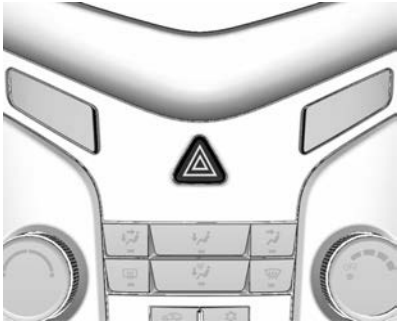
Turn and lane-change signals



left = lever up
right = lever down

Turn and lane change signals ⇨ 80.

Hazard warning flashers



Operated with the ⚠ button.

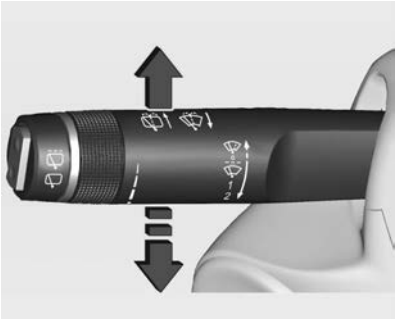
Hazard warning flashers ⇨ 79.

Horn

Press .

Washer and wiper systems

Windscreen wipers



2 = fast
1 = slow
= timed interval wiping
O = off

For a single swipe when the windscreen wipers are off, push the lever up.

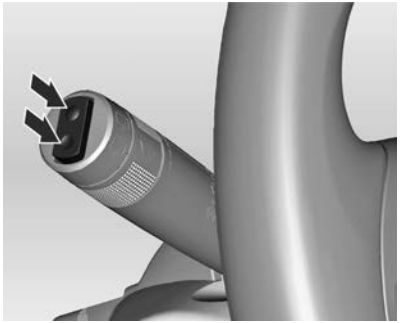
Windscreen wipers ⇨ 58, Wiper replacement ⇨ 128.

Windscreen washer system

Pull lever.

Windscreen washer system ⇨ 58, Washer fluid ⇨ 127.

Rear window wiper and washer systems



Press the rocker switch to activate the rear window wiper:

upper position	=	intermittent operation
lower position	=	continuous operation
middle position	=	off

Rear window wiper/washer ⇨ 59.

Push lever.

Washer fluid is sprayed on the rear window and the wiper wipes a few times.

Climate control

Heated rear window, heated exterior mirrors

Air conditioning system (if fitted)

Heating is operated by pressing the button.

Heated rear window ⇨ 32.

Climate control ⇨ 83.

Electronic climate control system (if fitted)

Heating is operated by pressing the button.

Heated rear window ⇨ 32.

Climate control ⇨ 83.

Demisting and defrosting the windows

Press button .

Set temperature control to warmest level.

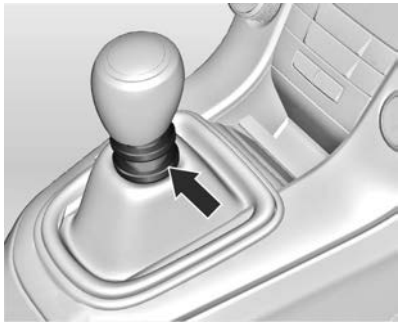
Cooling on.

Heated rear window on.

Climate control system ⇨ 83.

Transmission

Manual transmission



Reverse: when the vehicle is stationary, depress the clutch pedal and then pull up the ring on the shift lever and engage the gear.

If the gear does not engage, set the lever in neutral, release the clutch pedal and depress again; then repeat gear selection.

Manual transmission ⇨ 101.

Automatic transmission

P = park
R = reverse
N = neutral
D = drive

Sport mode: move shift lever from **D** to the left.

Manual mode: move shift lever from **D** to the left and then forwards or backwards.

+ = higher gear
− = lower gear

The shift lever can only be moved out of **P** when the ignition is on and the brake pedal is applied. To engage **P** or **R**, push the release button.

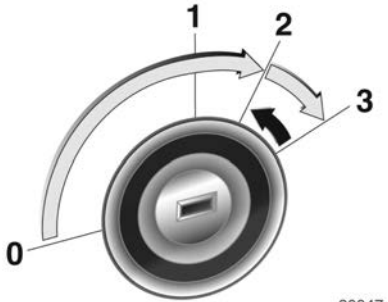
Automatic transmission ⇨ 97.

Starting off

Check before starting off

- Tyre pressure and condition ⇨ 143.
- Engine oil level and fluid levels ⇨ 124.
- All windows, mirrors, exterior lighting and number plates are free from dirt, snow and ice and operational.
- Proper position of seats, seat belts and mirrors ⇨ 34, ⇨ 39, ⇨ 29.
- Check brake function at low speed, particularly if the brakes are wet.

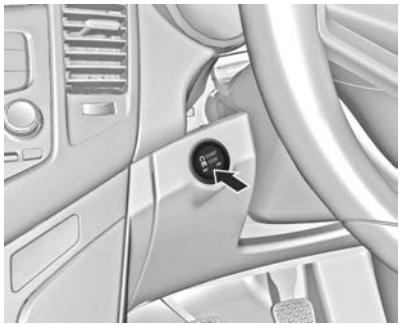
Starting the engine



- Turn key to position 1.
- Move the steering wheel slightly to release the steering wheel lock.
- Manual transmission: operate clutch.
- Automatic transmission: operate brake and move shift lever in **P** or **N**.
- Do not accelerate.
- Diesel engine: turn the key to position **2** for preheating until control indicator ⟟ goes out.
- Turn key to position **3** and release when engine is running.

Before restarting or to switch off the engine, turn key back to **0**.

Starting engine with the Start/Stop button



- The electronic key must be inside the vehicle.
- Manual transmission: depress the clutch pedal.
- Automatic transmission: depress the brake pedal and move the shift lever to **P** or **N**.
- Do not accelerate.
- Press the Start/Stop button. The green LED will illuminate.

To switch off the engine, press the button again whilst the engine is running.

Starting the engine ⇨ 93.

Parking

- Always apply parking brake without pressing release button. Apply as firmly as possible on a downhill slope or uphill slope. Operate foot brake at same time to reduce operating force.
- Switch off the engine and ignition. Turn the ignition key to 0, remove and turn the steering wheel until the steering wheel lock is felt to engage. Vehicles with electronic key system: with the vehicle stationary, press the **Start/Stop** button and open the driver's door.

  For vehicles with automatic transmission, move shift lever to **P** position and remove key.
- If the vehicle is on a level surface or uphill slope, engage first gear (for vehicles fitted with manual transmission) or set the shift lever to **P** (for vehicles fitted with automatic transmission) before switching off the ignition. On an uphill slope, turn the front wheels away from the kerb.

  If the vehicle is on a downhill slope, engage reverse gear or set the shift lever to **P** before switching off the ignition. Turn the front wheels towards the kerb.
- Close windows.
- Lock the vehicle with button on the remote control or, for vehicles with electronic key system, press switch on the door handle.
- Activate the anti-theft alarm system ⇨ 27.
- Do not park the vehicle on an easily flammable surface. The high temperature of the exhaust system could ignite the surface.
- The engine cooling fans may run after the engine has been switched off ⇨ 118.
- Diesel engines: after running at high engine speeds or with high engine loads, operate the engine briefly at a low load or run for about 1 to 2 minutes at idle speed before switching off in order to protect the turbocharger.

Keys, locks ⇨ 19.

Keys, doors and windows

Keys, locks 19
Doors 25
Vehicle security 27
Exterior mirrors 29
Interior mirrors 30
Windows 30

Keys, locks

Keys

Replacement keys

The key number is specified on a detachable tag.

Locks ⇨ 157.

Key with foldaway key section

Press button to extend. To fold the key, first press the button.

Radio remote control

Used to operate:

- Central locking system
- Anti-theft alarm system
- Load compartment

The remote control has a range of approx. 25 metres. This range can be affected by outside influences.

The hazard warning flashers confirm operation.

Handle with care, protect it from moisture and high temperatures and avoid unnecessary operation.

Fault

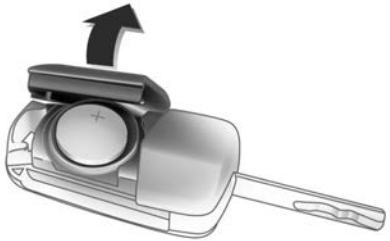
If the central locking system cannot be operated with the radio remote control, it may be due to the following:

- Range exceeded,
- Battery voltage too low,
- Frequent, repeated operation of the remote control while not in range, which will require resynchronisation,
- Overloading the central locking by operating at frequent intervals, the power supply is interrupted for a short time,
- Interference from higher-power radio waves from other sources.

Opening the vehicle ⇨ 21.

Remote control battery replacement

Replace the battery as soon as the range reduces, or as per the service schedule.



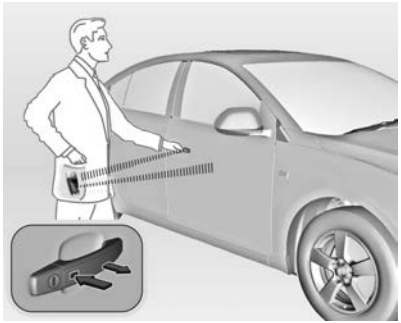
Extend the key and open the unit. Replace the battery (battery type CR 20 32), paying attention to the installation position. Close the unit and synchronise.

Remote control synchronisation

After replacing the battery, unlock the door with the key in the lock. The remote control will be synchronised when you switch on the ignition.

Electronic key system

(If fitted)



Makes operation of the following possible without the use of the mechanical key.

- Central locking system
- Anti-theft alarm system
- Ignition and starter

The electronic key simply needs to be on the driver's person.

Note

Do not put the electronic key in the boot or in front of the Info-Display.

Starting the engine ⇨ 93.

Radio remote control

The electronic key also has a radio remote control feature.

Replacing battery in electronic key

Replace the battery as soon as the system no longer operates properly or the range is reduced. The need for battery replacement is indicated by an error code in the Driver Information Centre ⇨ 72.

Batteries do not belong in household waste. They must be disposed of at an appropriate recycling collection point.

Radio remote control battery replacement ⇨ 19.

Replace the battery (battery type CR 2032), noting the installation position. Engage caps.

Radio remote control synchronisation

The radio remote control synchronises itself automatically during every starting procedure.

Fault

If the central locking cannot be operated or the engine cannot be started, the messages **No Remote Detected** or **No Remote Detected. Press Brake to Restart** may be displayed on the Driver Information Centre (DIC). The cause may be one of the following:

- Fault in remote control,
- Electronic key out of reception range,
- Battery voltage too low,
- Interference from higher-power radio waves from other sources.

Try repositioning the electronic key or follow the electronic key manual override ⇨ 93.

Central locking system

Unlocks and locks doors, boot and fuel filler flap.

A pull on an interior door handle unlocks and opens the door.

Note
In the event of an accident of a certain severity, the vehicle unlocks automatically.

Unlocking

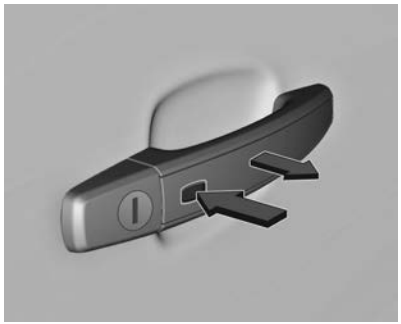
Remote control

Press button .

It is configurable to unlock only the driver's door, fuel filler flap and boot by pressing button once and to unlock all by pressing button twice.

Settings can be changed in the menu **Vehicle Settings** in the Info-Display. Vehicle personalisation ⇨ 75.

Electronic key system



Press switch on a door handle to unlock the vehicle and pull the door handle to open the door, or press the button under the boot lid moulding.

The electronic key must be outside the vehicle within a range of approximately one metre of the relevant door side.

It is configurable to unlock only the driver's door or all doors.

Settings can be changed in the menu **Vehicle Settings** in the Info-Display. Vehicle personalisation ⇨ 75.

Locking

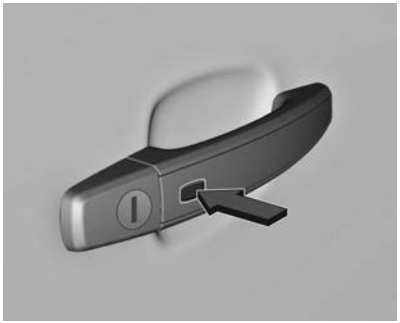
Remote control

Close doors, boot and fuel filler flap.

Press button .

If the driver's door is not closed properly, the central locking system will not work on driver's door. Activation or deactivation of the remote control is listed in the menu **Vehicle Settings** in the Info-Display. Vehicle personalisation ⇨ 75.

Electronic key system



Press the switch on a door handle.

The electronic key must be outside the vehicle, within a range of approximately one metre to the relevant door. The spare electronic key must not be inside the vehicle.

It is possible to check that the vehicle is locked by pulling the handle without pressing the button.

Note
The vehicle is not automatically locked.

Unlocking the boot lid

5 Door hatchback, Sportwagon

Press button ⍐ once or twice, depending on the selected setting. The tailgate will unlock.

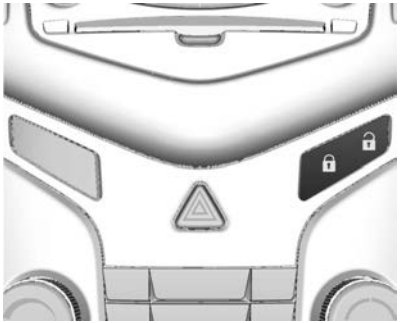
Vehicle personalisation ⇨ 75.

4 Door sedan

Press button . The boot lid will unlock and open, whilst all other doors remain locked.

Central locking buttons

Locks or unlocks all doors, the load compartment and fuel filler flap.



Press the button to lock.
Press the button to unlock.

Fault in remote control system or electronic key system

Unlocking

Manually unlock the driver's door by turning the key in the lock. Switch on the ignition and press the central locking button to unlock all doors, boot and fuel filler flap. To deactivate the anti-theft locking system, switch on the ignition.

Locking

Switch on the ignition and press the central locking button to lock the doors, boot and fuel filler flap. Then switch off the ignition, close the driver's door and lock it from the outside with the key.

Fault in central locking system

Unlocking

Manually unlock the driver's door by turning the key in the door barrel. The other doors can be opened by using the interior handle twice. The fuel filler flap cannot be opened. To deactivate the anti-theft locking system, switch on the ignition.

Locking

Push inside locking knob of all doors except driver's door. Then close the driver's door and lock it from the outside with the key. The fuel filler flap cannot be locked.

Automatic locking

Automatic locking after driving off

This security feature can be configured to automatically lock all doors, boot and fuel filler flap as soon as the vehicle starts to drive.

Settings can be changed in the menu **Vehicle Settings** in the Info-Display. Vehicle personalisation ⇨ 75.

Child locks

⚠ Warning

Use the child locks whenever children are occupying the rear seats.

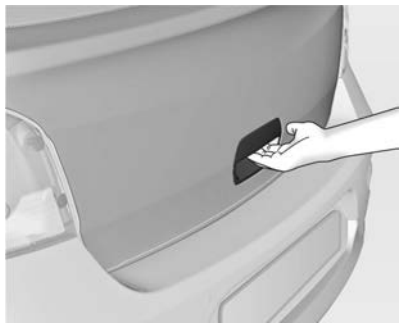
Using a key or suitable screwdriver, turn the child locks in the rear doors into horizontal position. Doors cannot be opened from inside. For deactivation turn the child locks into vertical position.

Doors

Load compartment

Opening

5 Door hatchback, Sportwagon



After unlocking, push the button below the handle and open the tailgate.

4 Door sedan

Push the button under the boot lid moulding or press button on the remote control until boot lid is opened.

⚠Danger

Do not drive with the boot lid open or ajar, e.g. when transporting bulky objects, since toxic exhaust gases could enter the vehicle.

Caution

Before opening the boot lid check overhead obstructions, such as a garage door, to avoid damage of the boot lid. Always check the moving area above and behind the boot lid.

Note
The installation of certain heavy accessories onto the boot lid may affect its ability to remain open.

Closing

5 Door hatchback

Use the interior handle.

4 Door sedan
Push the boot lid down until it latches.

Sportwagon
Lower the tailgate and push to close.

Vehicle security

Anti-theft alarm system

Anti theft alarm system monitors:

- Doors, boot lid, bonnet
- Passenger compartment including adjoining boot
- Vehicle inclination, e.g. if it is raised
- Ignition

Activation

- Self-activated 30 seconds after locking the vehicle (initialisation of the system), or
- Remote control: directly by pressing once more after locking, or
- Electronic key system: press on the key, after pressing the switch in the door handle to lock.

Note

Changes to the vehicle interior such as the use of seat covers, or open windows, could impair the function of passenger compartment monitoring.

Status LED

Status LED is integrated in the sensor on top of the instrument panel.

Status during the first 30 seconds of anti-theft alarm system activation:

LED illuminates	=	test, arming delay.
LED flashes quickly	=	doors, boot lid or bonnet not completely closed, or system fault.

Status after system is armed:

LED flashes slowly	=	system is armed.

Seek the assistance of a workshop in the event of faults.

Deactivation

Unlocking the vehicle by pressing button deactivates anti-theft alarm system.

Vehicles with electronic key system: Pressing the switch on a door handle deactivates anti-theft alarm system when the key is within approximately one metre of the relevant door.

Alarm

When triggered, the alarm sounds via a separate battery-backed power sounder, and the hazard warning lights flash simultaneously. The number and duration of alarm signals are stipulated by legislation.

The alarm can be silenced by pressing any button of the remote control or by switching on the ignition.

The anti-theft alarm system can be deactivated only by pressing the button, by pressing the switch on a door handle (only electronic key system) or switching on the ignition.

Immobiliser

The system is integrated into the ignition switch and checks whether the vehicle is allowed to start with the key being used. If the transponder in the key is recognised, the vehicle can be started.

The immobiliser activates itself automatically after the key has been removed from the ignition switch or when the engine is switched off by pressing the Start/Stop button.

If the control indicator flashes or illuminates when the ignition is on, there is a fault in the system; the engine cannot be started. Switch off the ignition and then repeat the start attempt.

If the control indicator continues flashing, attempt to start the engine using the spare key and seek the assistance of your Holden Dealer.

Note

The immobiliser does not lock the doors. You should always lock the vehicle after leaving it.

Control indicator ▷ 69.

Exterior mirrors

Convex shape

The convex exterior mirror reduces blind spots. The shape of the mirror makes objects appear smaller, which will affect the abilty to estimate distances.

Electric adjustment

Select the relevant exterior mirror by turning the control to left **(L)** or right **(R)**. In position **0** no mirror is selected.

Then swivel the control to adjust the mirror.

Folding mirrors

For pedestrian safety, the exterior mirrors will swing out of their normal mounting position if they are struck with sufficient force. Reposition the mirror by applying slight pressure to the mirror housing.

Heated mirrors

Air conditioning system (if fitted)

Electronic climate control system (if fitted)

Operated by pressing the button.

Heating works with the engine running and is switched off automatically after a short time.

Interior mirrors

Manual anti-dazzle

To reduce glare, pull the lever on the underside of the mirror housing.

Windows

Power windows

⚠Warning

Take care when operating the power windows. Risk of injury, particularly to children.

If there are children on the rear seat, switch on the child safety system for the power windows.

Keep a close watch on the windows when closing them. Ensure that nothing becomes trapped in them as they move.

Power windows can be operated

- with ignition on,
- within 10 minutes after switching ignition off.

After switching off the ignition, window operation is disabled when a front door is opened.

Operate the switch for the respective window by pushing to open or pulling to close.

Operation of driver's window

Pushing or pulling lightly to the first detent: window moves down or up as long as switch is operated.

Pushing or pulling further to the second detent and then releasing: window moves down or up automatically with safety function. To stop movement, operate the switch once more in the same direction.

Operation of passenger's window and rear windows

Pushing or pulling lightly to the first detent: window moves down or up as long as switch is operated.

Pushing further to the second detent and then releasing: window moves down automatically. To stop movement, operate the switch once more in the same direction.

Safety function on driver's window

If the window glass encounters resistance above the middle of the window during automatic closing, it is immediately stopped and opened again.

Safety function all doors

In the event of closing difficulties due to frost or the like, hold the switch pulled. The window moves up without activating the safety function. To stop movement, release and operate the switch once more in the same direction.

Child safety system for rear windows

Press switch to deactivate rear door power windows, the LED lights up. To activate press again.

Overload

If the windows are repeatedly operated within short intervals, the window operation is disabled for some time.

Initialising the power windows

If the windows cannot be closed automatically (e.g. after disconnecting the vehicle battery), a

warning message or a warning code is displayed in the Driver Information Centre.

Vehicle messages ⇨ 72.

Activate the window electronics as follows:

1. Close doors.
2. Switch on ignition.
3. Close the window completely and keep the switch pulled for additional 2 seconds.
4. Repeat for each window.

Heated rear window

Air conditioning system (if fitted)

Electronic climate control system (if fitted)

Operated by pressing the button.

Heating works with the engine running and is switched off automatically after a short time.

Sun visors

The sun visors can be folded down or swivelled to the side to prevent glare.

If the sun visors have integral mirrors, the mirror covers should be closed when driving.

Seats, restraints

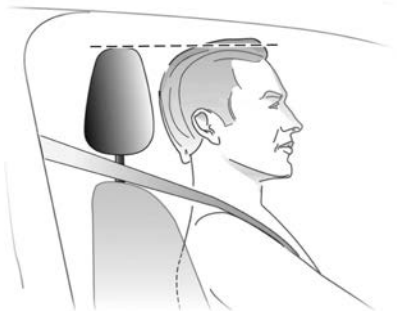
Head restraints 33
Front seats 34
Rear seats 37
Seat belts 37
Airbag system 40
Child restraints 43

Head restraints

Position

⚠Warning

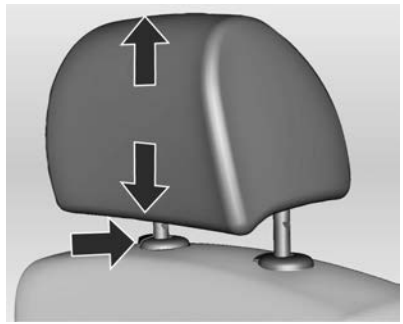
Only drive with the head restraint set to the proper position.



The upper edge of the head restraint should be at upper head level. If this is not possible for extremely tall people, set to highest position, and set to lowest position for small people.

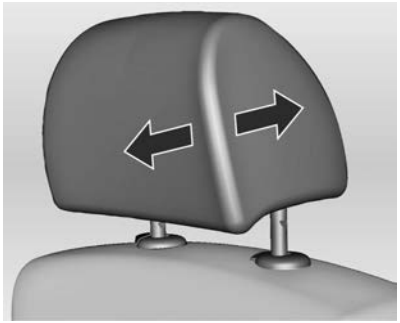
Head restraints on front seats

Height adjustment



Pull the head restraint upwards.

To move down press the catch and push the head restraint downwards.



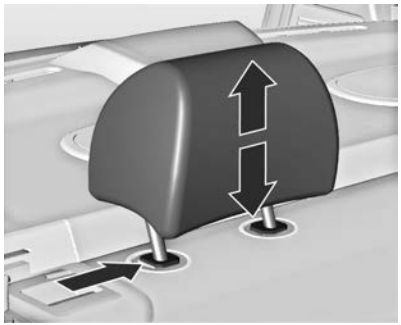
Horizontal adjustment

To adjust horizontally, pull the head restraint forwards and engage in one of three positions.

To return to its rearmost position, pull fully forwards and release.

Head restraints on rear seats

Height adjustment



Pull the head restraint upwards.

To move down press the catch and push the head restraint downwards.

Front seats

Seat position

⚠ Warning
Only drive with the seat correctly adjusted.

- Sit with your buttocks as far back against the backrest as possible. Adjust the distance between the seat and the pedals so that your legs are slightly angled when

applying the pedals. Slide the passenger seat as far back as possible.

- Sit with your shoulders as far back against the backrest as possible. Set the backrest rake so that you can easily reach the steering wheel with your arms slightly bent. Maintain contact between your shoulders and the backrest when turning the steering wheel. Do not angle the backrest too far back. We recommend a maximum rake of approx. 25 °.
- Adjust the steering wheel ⇨ 57.
- Set seat height high enough to have a clear field of vision on all sides and of all display instruments. There should be at least one hand of clearance between your head and the headlining. Your thighs should rest lightly on the seat without pressing into it.
- Adjust the head restraint ⇨ 33.
- Adjust the height of the seat belt ⇨ 39.

Seat adjustment

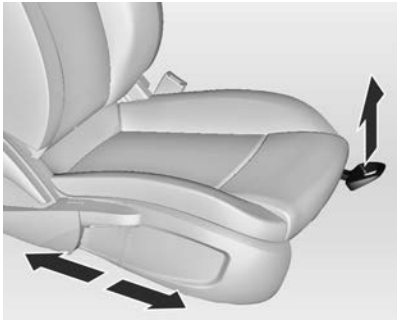
⚠ Danger

Do not sit nearer than 25 cm from the steering wheel, to permit safe airbag deployment.

⚠ Warning

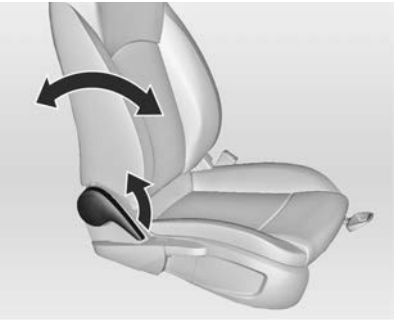
Never adjust seats while driving as they could move uncontrollably.

Seat positioning



Pull handle, slide seat, release handle.

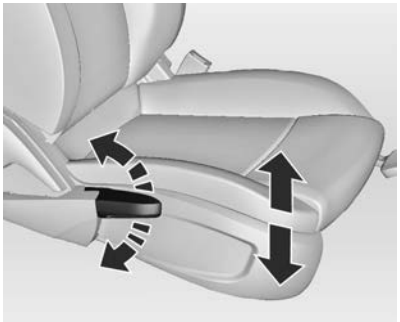
Seat backrests



Pull lever, adjust inclination and release lever. Allow the seat to engage audibly.

Do not lean on seat when adjusting.

Seat height



Lever pumping motion

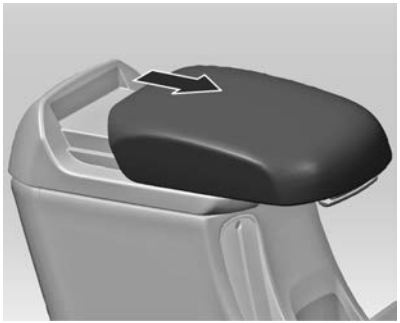
up = higher
down = lower

Armrest

Armrest between front seats

Push button on the front edge and fold armrest upward. The open armrest contains a stowage compartment.

Horizontal adjustment



Push button to slide the armrest.

Heating

(If fitted)

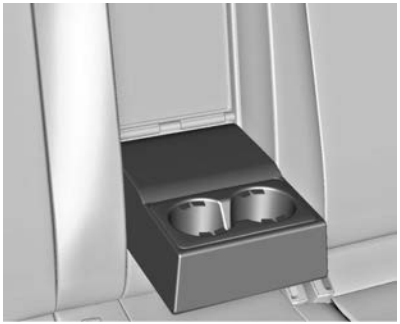
Activate front seat heating (while the engine is running) by pressing the button in the control knob for temperature (left seat) or fan speed (right seat) one or more times with the ignition on. The number of LEDs in the button indicates the setting.

Prolonged use of the highest level for people with sensitive skin is not recommended.

Seat heating is operational when the engine is running.

Rear seats

Armrest



Fold armrest down by pulling the strap. The folded armrest contains drink holders.

Seat belts

Seat belt reminder for driver's seat and front passenger seat, seat belt control indicator ⇨ 66.

The belts are locked during heavy acceleration or deceleration of the vehicle for the safety of the occupants.

⚠Danger

Fasten seat belt before each trip.

In the event of an accident, people not wearing seat belts endanger their fellow occupants and themselves.

⚠Warning

Seatbelts are designed to bear upon the bony structure of the body, and should be worn low across the front of the pelvis or the pelvis, chest and shoulders, as applicable; wearing the lap section of the belt across the abdominal area must be avoided.

Seatbelts should be adjusted as firmly as possible, consistent with comfort, to provide the protection for which they have been designed. A slack belt will greatly reduce the protection afforded to the wearer.

Care should be taken to avoid contamination of the webbing with polishes, oils and chemicals, and particularly battery acid. Cleaning may safely be carried out using mild soap and water. The belt should be replaced if webbing becomes frayed, contaminated or damaged.

It is essential to replace the entire assembly after it has been worn in a severe impact even if damage to the assembly is not obvious.

Belts should not be worn with straps twisted.

Each belt assembly must only be used by one occupant; it is dangerous to put a belt around a child being carried on the occupant's lap.

No modifications or additions should be made by the user which will either prevent the seatbelt adjusting devices from operating to remove slack, or prevent the seatbelt assembly from being adjusted to remove slack.

Periodically check all parts of the belt system for damage, soiling and proper functionality.

Have damaged components replaced. After an accident, have the belts and triggered belt tensioners replaced by your Holden Dealer.

Note

Make sure that the belts are not damaged by shoes or sharp-edged objects or trapped. Prevent dirt from getting into the belt retractors.

Belt force limiters

In the front seats, stress on the body is reduced by dampened release of the belt during a collision.

Belt tensioners

In the event of a head-on or rear-end collision of a certain severity, the front seat belts are tightened.

⚠ Warning

Incorrect handling (e.g. removal or fitting of belts or belt buckles) can trigger the belt tensioners with risk of injury.

Deployment of the belt tensioners is indicated by illumination of control indicator ⇨ 66.

Triggered belt tensioners must be replaced by your Holden Dealer. Belt tensioners can only be triggered once.

Note
Do not affix or install accessories or other objects that may interfere with the operation of the belt tensioners. Do not make any modifications to belt tensioner components as this will invalidate the vehicle type approval.

Three-point seat belt

Fitting

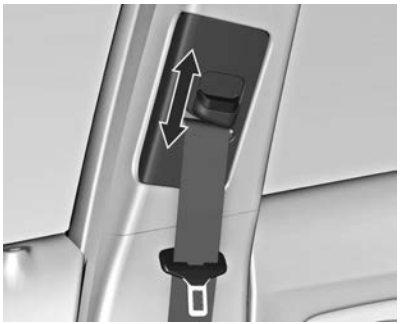
Withdraw belt from reel, guide it untwisted across the body and engage the latch plate in the buckle. Tension the lap belt regularly whilst driving by tugging the shoulder belt.

Loose or bulky clothing prevents the belt from fitting snugly. Do not place objects such as handbags or mobile phones between the belt and your body.

⚠Warning

The belt must not rest against hard or fragile objects in the pockets of your clothing.

Height adjustment

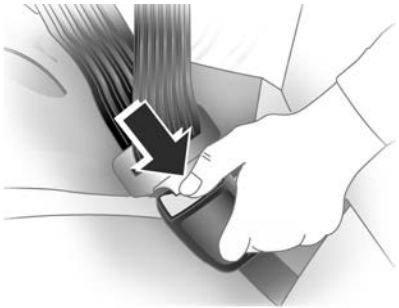


1. Pull belt out slightly.
2. Press button.
3. Adjust height and engage.

Adjust the height so that the belt lies across the shoulder. It must not lie across the throat or upper arm.

Do not adjust while driving.

Removing



To release belt, press red button on belt buckle.

Seat belts on the rear seats

The three point seat belt for the rear centre seat can only be withdrawn from the retractor if the backrest is in the rear position.

Pregnant women

Seatbelts work for everyone, including pregnant women. Like all occupants, they are more likely to be seriously injured if they do not wear a seatbelt. A pregnant woman should wear a three point seat belt with the lap portion of the belt worn as low as possible below the rounding of their stomach, throughout the pregnancy.

Airbag system

The airbag system consists of a number of individual systems.

When triggered the airbags inflate within milliseconds. They also deflate so quickly that it is often unnoticeable during the collision.

⚠Warning
If handled improperly the airbag systems can be triggered in an explosive manner.

Note

The airbag systems and belt tensioner control electronics are located in the centre console area. Do not put any magnetic objects in this area.

Do not stick anything on the airbag covers and do not cover them with other materials.

Each airbag is triggered only once. Have deployed airbags replaced by a Holden Dealer.

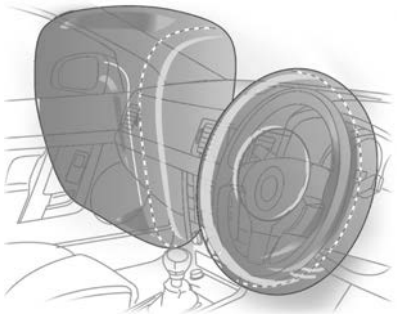
In the event of airbag deployment have the steering wheel, the instrument panel, all panelling parts, the door seals, the handles and the seats replaced by your Holden Dealer.

Control indicator for airbag systems ⇨ 66.

Front airbag system

The front airbag system consists of one airbag in the steering wheel and one in the instrument panel on the passenger side. These can be identified by the word **AIRBAG**.

The front airbag system is triggered in the event of an accident of a certain severity. The ignition must be on.



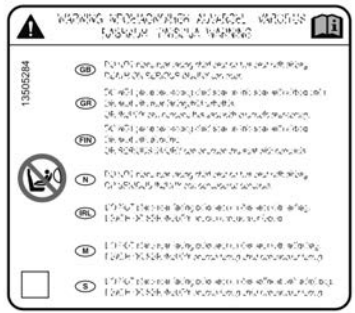
In the event of an accident (e.g. front end collision) the forward movement of the front seat occupants is retarded, thereby considerably reducing the risk of injury to the upper body and head.

⚠Warning

Optimum protection is only provided when the seat is in the proper position ⇨ 34.

Keep the area in which the airbag inflates clear of obstructions.

Wear the seat belt properly fastened. Only then the airbag is able to protect.



Refer to the airbag warning label on the passenger's sunvisor.

Depending on the body style, a different airbag label may be located on the passenger's sunvisor.

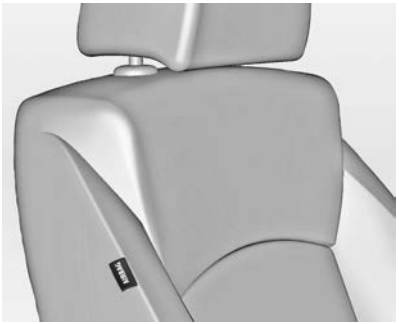
⚠Warning

EXTREME HAZARD!

Do not use a rearward facing child restraint on a seat protected by an airbag in front of it!

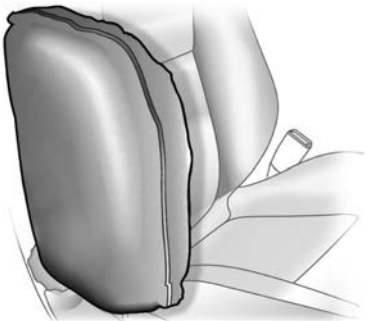
The child could be seriously injured if the airbag inflates, as the child's head would be very close to the inflating airbag.

Side airbag system



The side airbag system consists of an airbag in each front seat backrest. This can be identified by the word **AIRBAG**.

The side airbag system is triggered in the event of an accident of a certain severity. The ignition must be on.



The risk of injury to the upper body and pelvis in the event of a side-on collision is considerably reduced.

⚠Warning

Keep the area in which the airbag inflates clear of obstructions.

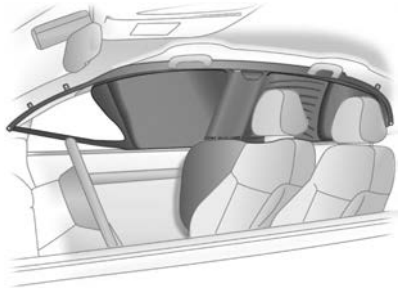
Note

Only use protective seat covers that have been approved for your vehicle. Be careful not to cover the airbags.

Curtain airbag system

The curtain airbag system consists of an airbag in the roof frame on each side. This can be identified by the word **AIRBAG** on the roof pillars.

The curtain airbag system is triggered in the event of an accident of a certain severity. The ignition must be on.



The risk of injury to the head in the event of a side impact is considerably reduced.

⚠Warning

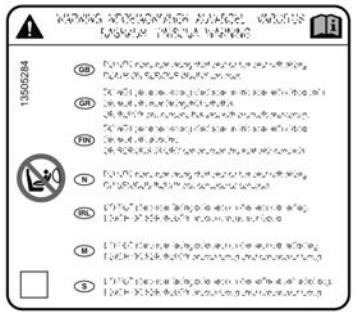
Keep the area in which the airbag inflates clear of obstructions.

The hooks on the handles in the roof frame are only suitable for hanging up light articles of clothing, without coat hangers. Do not keep any items in these clothes.

Child restraints

Child restraint systems

When a child restraint system is being used, pay attention to the following usage and installation instructions and also those supplied with the child restraint system.



Refer to the airbag warning label on the passenger's sunvisor.

Depending on the body style, a different airbag label may be located on the passenger's sunvisor.

⚠Warning

EXTREME HAZARD!

Do not use a rearward facing child restraint on a seat protected by an airbag in front of it!

The child could be seriously injured if the airbag inflates, as the child's head would be very close to the inflating airbag.

⚠Warning

This manual provides you with general information concerning child restraints only. The driver is required by law to ensure that passengers are suitably restrained.

In most States and Territories of Australia and New Zealand, specific laws may exist which require children to be seated in approved child restraints. Holden strongly recommends that you refer to your specific State or Territory regulations to determine which child restraint is suitable for your child.

Children should be restrained at all times when travelling in a vehicle.

Always ensure that the seat belt fits firmly around the child restraint.

If a child cannot see out of the window, do not raise him/her by means of an ordinary cushion. It will not stay in place in a collision and the child can slip out of the straps and become entangled.

⚠Warning

Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used for adult seat belts, harnesses or for attaching other items or equipment to the vehicle.

Only child restraints that have clips to attach to the vehicle's anchorage fitting are to be used. Earlier types of child restraints may not attach securely to this type of anchor.

Only Standards Australia approved child restraints and harnesses should be used. You should only purchase a child restraint which carries the appropriate Standards Australia sticker of approval.

Always follow the child restraint manufacturer's fitting instructions when installing a child restraint into the vehicle.

Selecting the right system

The rear seats are the safest location to fasten a child restraint system.

Your child should travel facing backwards in the vehicle, until as old as possible. It is appropriate to change the system when the child's head can no longer be properly supported at eye height. The child's cervical vertebrae are still very weak and in an accident they suffer less stress in the semi-prone rearward position than when sitting upright.

Never carry a child whilst travelling in the vehicle. The child will become too heavy to hold in the event of a collision.

When transporting children, use the child restraint systems suitable for the child's weight.

Ensure that the child restraint system to be installed is compatible with the vehicle type.

Ensure that the mounting location of the child restraint system within the vehicle is correct.

Only allow children to enter and exit the vehicle at the side facing away from the traffic.

When the child restraint system is not in use, secure the seat with a seat belt or remove it from the vehicle.

Note

Do not stick anything on the child restraint systems and do not cover them with any other materials.

A child restraint system which has been subjected to stress in an accident must be replaced.

Please ensure that infants and children are seated in the rear seats using child restraints.

Until the children can use seat belts, please select a child restraint suitable for its age and make sure the child wears it. Please see the instructions on the relevant products for child restraints.

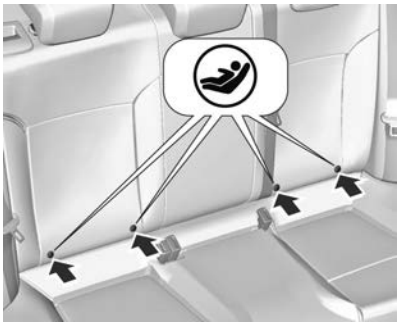
Child restraint installation locations

Permissible options for fitting a child restraint system

Weight and age class	On front passenger seat	On rear outboard seats	On rear centre seat
Group 0: up to 10 kg or approx. 10 months	X	U[1]	U
Group 0+: up to 13 kg or approx. 2 years	X	U[1]	U
Group I: 9 to 18 kg or approx. 8 months to 4 years	X	U[1]	U
Group II: 15 to 25 kg or approx. 3 to 7 years	X	U[1]	U
Group III: 22 to 36 kg or approx. 6 to 12 years	X	U[1]	U

U = Universal suitability in conjunction with three-point seat belt.
X = No child restraint system permitted in this weight class.
1 = Seat available with ISOFIX and Top-Tether mounting brackets.

Isofix child restraint systems



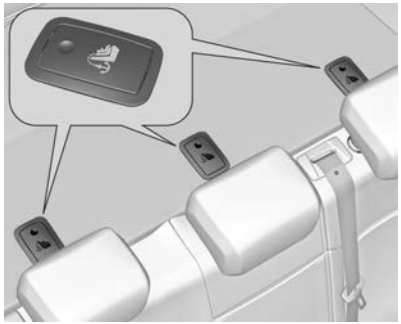
Fasten vehicle-approved ISOFIX child restraint systems to the ISOFIX mounting brackets.

Note
Ensure that seat belt buckles are placed out of the way of the child seat.

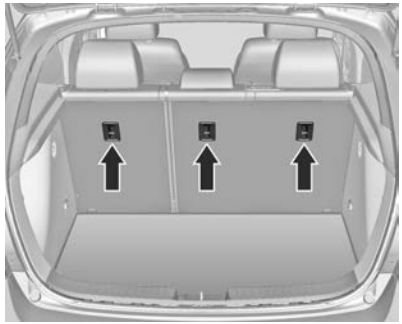
ISOFIX mounting brackets are indicated by a label on the seatback, see illustration.

In addition to the ISOFIX mounting, fasten the top-tether straps to the top-tether anchorage points. Top-tether child restraint systems ⇨ 47.

Top-tether child restraint systems



Fasten Top-tether child restraint systems to the fastening eyes on the places behind the rear head restraints or on the back of the rear seats.



The strap must run between the two guide rods of the head restraint.

When using Top-tether for seat mounting, universally approved child restraint systems for Top-Tether may be used.

Top-tether mounting loops are indicated by labels on the load compartment cover or on the back of the rear seats.

Storage

Storage compartments 48
Load compartment 50
Roof rack system 55
Loading information 56

Storage compartments

⚠Warning

Do not not store heavy or sharp objects in the storage compartments. Otherwise, the storage compartment lid could open and vehicle occupants could be injured by objects being thrown around in the event of sharp braking, a sudden change in direction or an accident.

Instrument panel storage

Storage on top of the instrument panel

Pull the grip to fold up the cover.

Storage below the light switch

Pull the grip to open the box.

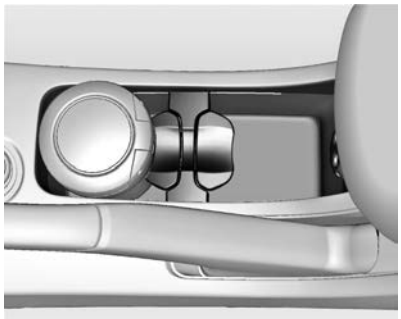
Glovebox

To open pull the grip.

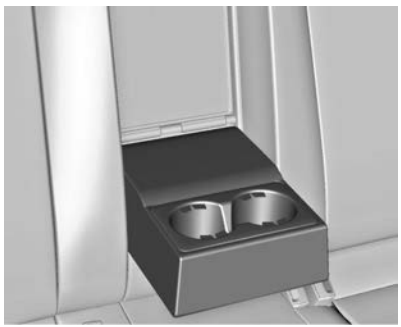
⚠Warning

To reduce the risk of injury in an accident or a sudden stop, always keep the glovebox door closed while driving.

Cupholders



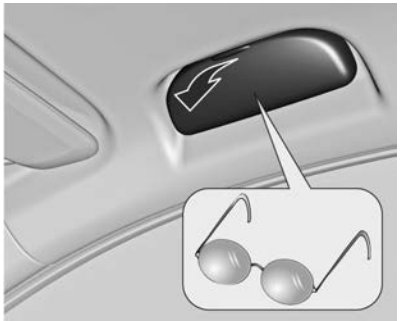
Cupholders are located in the centre console.



Additional cupholders are located in the rear armrest, when it is folded down.

Sunglasses storage

(If fitted)



Fold down to open.

Do not use for storing heavy objects.

Armrest storage

Storage in the front armrest

Push button on the front edge to slide and fold up the armrest.

Load compartment

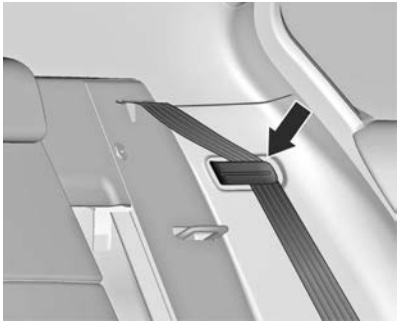
Folding down rear seat backrests

The rear backrest is divided into two parts. Both parts can be folded down.

Push head restraints down by pressing the catch.

Fold up rear armrest.

Pull release lever on one or both sides and fold down the backrests on the seat cushion.



The seat belts must be pulled out and positioned away from the back rest.

Fold up backrests into upright position.

Latch seat backrests into position by pushing at the upper part of the backrest until they engage audibly.

Pull seat backrests forward again to make sure they are correctly engaged.

The backrests are only engaged when the red marks on both sides near the release lever are not visible.

Insert all safety belts into the slots, if seat belts are not coiled up automatically.

The centre rear safety belt may lock when you raise the seatback. If this happens, let the belt go back all the way and start again.

Never fold seat backrest when the rear centre seat belt is buckled or extracted.

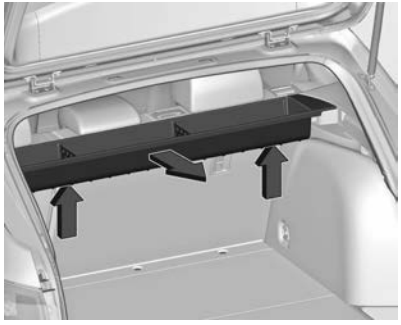
Bag hanger (if fitted)

On the left side in the boot is a retainer for hanging light carrier bags.

Rear storage

On Sportwagon a tray is located behind the rear seats.

Removing tray



Push tray upwards at the front to disengage

Pull tray rearwards and remove.

Installing tray

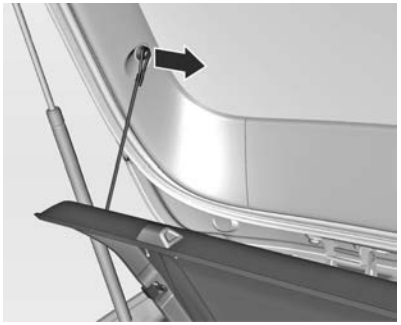
Engage tray in rear side guides and push tray down at the front to engage.

Load compartment cover

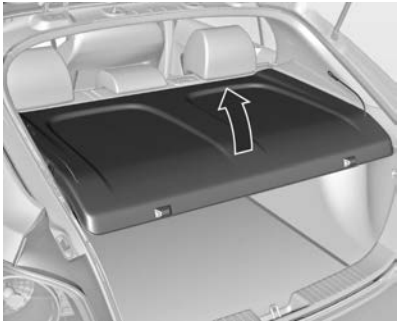
Do not place any objects on the cover.

5 Door hatchback

Removing



Unhook retaining straps from tailgate.



Lift cover at the rear and push it upwards at the front, from underneath.

Remove the cover.

Fitting

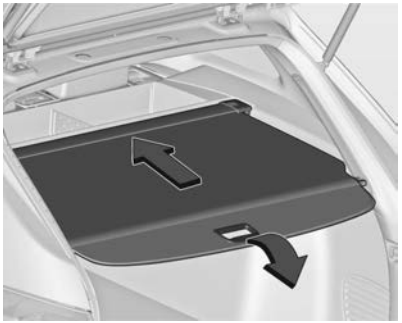
Engage cover in side guides and fold downwards. Attach retaining straps to tailgate.

Sportwagon

Closing cover

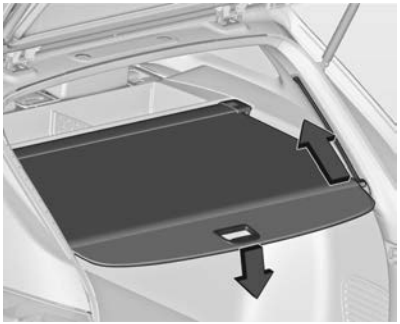
Pull the cover towards the rear using the handle until it locates in the side retainers. Lift slightly to engage.

Opening cover



Pull the handle at the end of the cover to the rear and downwards. It rolls up automatically.

Cover in upper position



Push the handle at the end of the cover downwards. The rear of the cover is guided upwards automatically.

Removing cover

Open the load compartment cover.

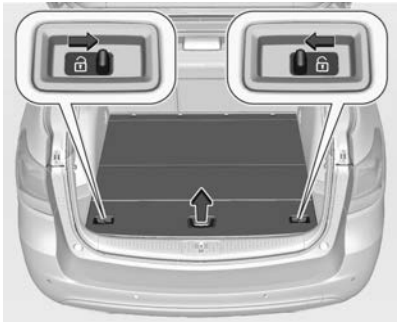
Pull the end of the cover inwards and lift the cover. Remove the cover.

Installing cover

Insert the cover in the side retainer on one side. Lower the cover and engage.

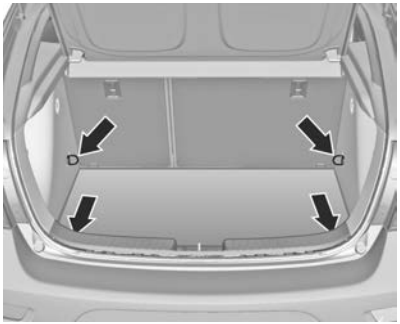
Rear floor storage cover

Rear floor cover, Sportwagon



Unlock the rear floor cover by pushing both catches inwards. Lift the cover by pulling the handle. Fold and place the cover behind the rear seats.

Lashing eyes



The lashing eyes are designed to secure items against slippage, e.g. using lashing straps or luggage net.

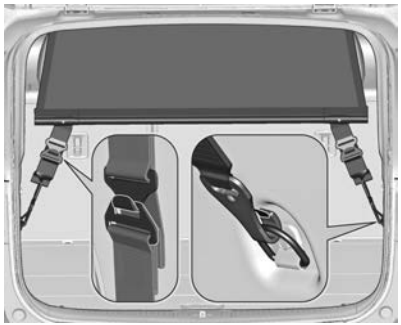
Safety net

The safety net is available on the Sportwagon and can be installed behind the rear seats or, if the rear seat backrests are folded, behind the front seats.

Passengers must not be transported behind the safety net.

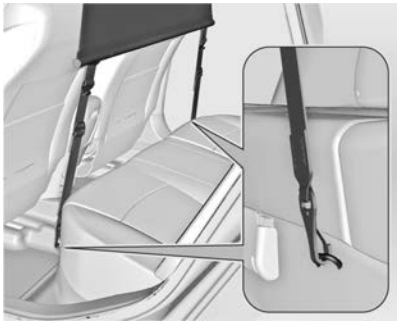
Installation

Behind the rear seats



Attach lower hook with opening facing backward to eye in the right and left sidewall. Adjust strap length on safety net by attaching the upper hook to the eyes of the strap. Keep strap under tension while proceeding with installation of rod.

Behind the front seats

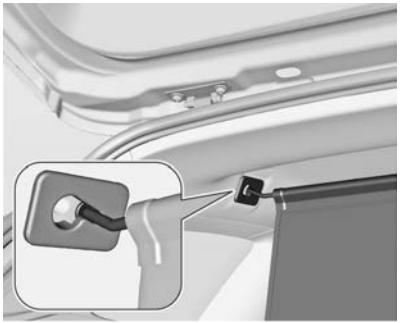


Attach strap to eyes underneath the rear seat cushion.

Fold backrests forward.

Move front seats forward to ease tension if necessary.

Installation of the rod



There are two installation openings in the roof frame: suspend and engage rod of net at one side, compress rod and suspend and engage at other side.

Load compartment ⇨ 50.

Removal

Unhook the safety net rods from the brackets in the roof frame. Detach straps from the eyes. Roll up the net and secure with a strap.

The removed safety net can be stored under the rear floor cover ⇨ 53.

Roof rack system

Roof rack

For safety reasons and to avoid damage to the roof, the vehicle approved roof rack system is recommended.

Follow the installation instructions and remove the roof rack when not in use.

⚠Warning

For safety reasons, and to avoid damaging the roof, use only the roof rack approved by Holden for your vehicle. The maximum allowable roof load (including the weight of the roof racks) is:

- Sedan, Hatchback: 45 kg
- Sportwagon: 50 kg

Roof rack loads alter the handling of a vehicle due to a change in the centre of gravity.

Avoid abrupt swerving or sharp steering when carrying loads on the roof rack.

Loading information

- Heavy objects in the boot should be placed against the seat backrests. Ensure the backrests are securely engaged. If objects can be stacked, the heavier objects should be placed at the bottom.
- Secure objects in load compartment to prevent sliding.
- Secure objects with lashing straps attached to lashing eyes ⇨ 54.
- When transporting objects in the load compartment, the backrests of the rear seats must not be angled forward.
- Do not allow the load to protrude above the upper edge of the backrests.
- Do not place any objects on the boot lid cover or the instrument panel, do not cover the sensor on top of the instrument panel.
- The load must not obstruct the operation of the pedals, parking brake and shift lever, or hinder the freedom of movement of the driver. Do not place any unsecured objects in the interior.
- Do not drive with an open boot lid.
- Optional equipment and accessories increase the kerb weight.
- Driving with a roof load increases the sensitivity of the vehicle to cross-winds and has a detrimental effect on vehicle handling due to the vehicle's higher centre of gravity. Distribute the load evenly and secure it properly with retaining straps. Adjust the tyre pressure and vehicle speed according to the load conditions. Check and retighten the straps frequently.

Instruments and controls

Controls 57
Warning lights, gauges and indicators 61
Information displays 70
Vehicle messages 72
Trip computer 74
Vehicle personalisation 75

Controls

Steering wheel adjustment

Unlock lever, adjust steering wheel, then engage lever and ensure it is fully locked.

Do not adjust steering wheel unless vehicle is stationary.

Steering wheel controls

The Infotainment system can be operated by the controls on the steering wheel.

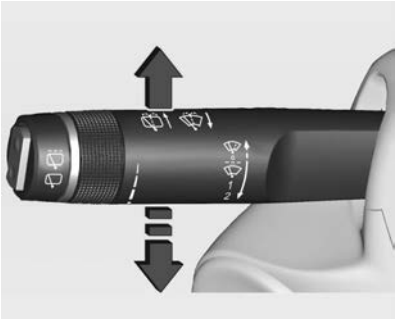
For further information see the Infotainment System Handbook.

Horn

Press .

Windscreen wiper/washer

Windscreen wiper



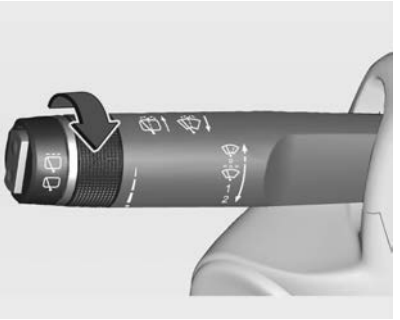
2 = fast
1 = slow
= timed interval wiping
O = off

For a single swipe when the windscreen wipers are off, push the lever up.

Do not use if the windscreen is frozen.

Switch off in car washes.

Adjustable wiper interval



Wiper lever in position .

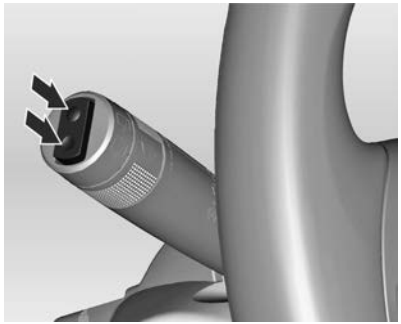
Turn the adjuster wheel to adjust the desired wipe interval:

short interval = turn adjuster wheel downwards
long interval = turn adjuster wheel upwards

Windscreen washer

Pull lever. Washer fluid is sprayed onto the windscreen and the wiper swipes for a few strokes.

Rear window wiper/washer



Press the rocker switch to activate the rear window wiper:

upper position	=	intermittent operation
lower position	=	continuous operation
middle position	=	off

Push lever. Washer fluid is sprayed onto the rear window and the wiper wipes a few times.

Do not use if the rear window is frozen.

Switch off in car washes.

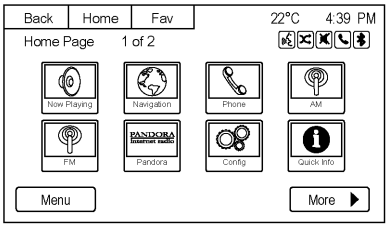
The rear window wiper comes on automatically when the windscreen wiper is switched on and reverse gear is engaged.

Activation or deactivation of this function can be changed in the menu **Vehicle Settings** in the Info-Display.

Vehicle personalisation ⇨ 75.

The rear window washer system is deactivated when the fluid level is low.

Outside temperature



A drop in temperature is indicated immediately and a rise in temperature after a time delay.

If outside temperature drops to 3 °C, the symbol illuminates in the Info-Display as a warning for icy road conditions. remains illuminated until temperatures reach at least 5 °C.

Additionally a warning message may be displayed in the Driver Information Centre.

⚠Warning

The road surface may already be icy even though the display indicates a few degrees above 3 °C.

Clock

Date and time are shown in the Info-Display.

Colour-Info-Display

Set date and time

To set the time:

1. Press **CLOCK**, then rotate and press **MENU SEL** to select **SET TIME**.
2. Select between hours and minutes by pressing the **MENU SEL** knob.
3. Use the **MENU SEL** knob to adjust the Hours and Minutes to decrease and increase the time.
4. Press **BACK** to exit.

To select 12 / 24 hours format:

1. Rotate and press **MENU SEL** to select **12hr / 24hr** format.
2. Rotate and press **MENU SEL** to select either 12 hour or 24 hour.

   A tick indicates the selected format.
3. Press **BACK** to exit.

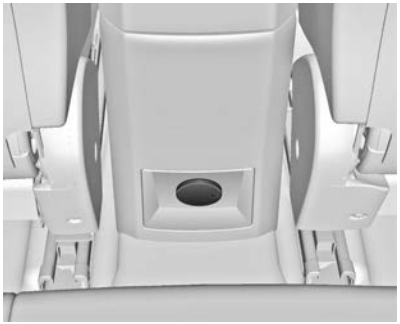
To set the date:

1. Press **CLOCK**, then rotate and press **MENU SEL** to select **SET DATE**.
2. Select between year, month and day by pressing the **MENU SEL** knob.
3. Use the **MENU SEL** knob to adjust the year, month and day.
4. Press **BACK** to exit.

Vehicle personalisation ⇨ 75.

Power outlets

(If fitted)



12V power outlets are located in the front and rear floor console.

Do not exceed the maximum power consumption of 120 watts.

With ignition off the power outlets are deactivated. Additionally the power outlets are deactivated in case of low battery voltage.

Do not connect any current-delivering accessories, e.g. electrical charging devices or batteries.

Do not damage the sockets by using unsuitable plugs.

Warning lights, gauges and indicators

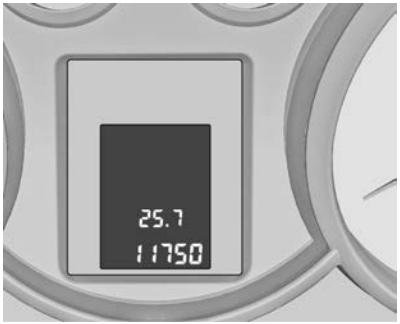
Speedometer

Indicates vehicle speed.

Note

When driving in the speed limited zones, such as child-safety zones, please keep the speed limits.

Odometer



The bottom line displays the recorded distance.

Different displays are used depending on the model.

Trip odometer

The top line displays the recorded distance since the last reset.

When kilometres are selected as unit in the **Vehicle Information Menu**, the maximum value is **1999.9**. When the recorded distance reaches **2000**, trip odometer automatically shows **0** without resetting.

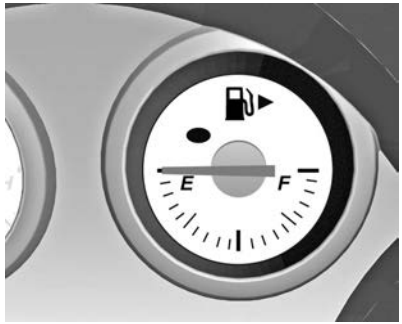
Tachometer

Displays the engine revolutions per minute.

Drive in a low engine speed range for each gear as much as possible.

Caution
If the needle is in the red warning zone, the maximum permitted engine speed is exceeded. Engine is at risk.

Fuel gauge



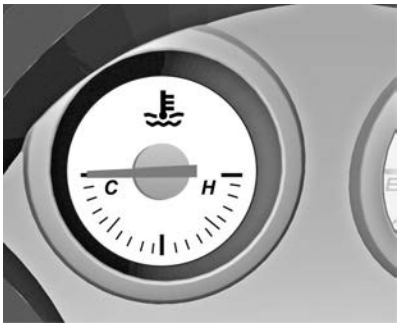
Displays the fuel level in the tank.

Control indicator ⬬ illuminates if the level in the tank is low. Refuel immediately.

Never run the tank dry.

Because of the fuel remaining in the tank, the top-up quantity may be less than the specified tank capacity.

Engine coolant temperature gauge



Displays the coolant temperature.

left area	=	engine operating temperature not yet reached
central area	=	normal operating temperature
right area	=	temperature too high

Caution

Do not continue driving with the temperature gauge needle in the right area. The engine is too hot. Continued operation of an overheated engine will result in severe engine damage.

Service display

Engine oil life system for diesel engines

When to change engine oil

This vehicle has a computer system that indicates when to change the engine oil and filter. This is based on engine revolutions and engine temperature, and not on kilometres. Based on driving conditions, the kilometres at which an oil change is indicated can vary considerably.

For the oil life system to work properly, the system must be reset every time the oil is changed. When the system has calculated that oil life has been diminished, it indicates that an oil change is necessary. **CodE 82** or **Change Engine Oil Soon** appears in the Driver Information Centre. Change the oil as soon as possible within the next 1000 km.

It is possible that, if driving under the best conditions, the oil life system might indicate that an oil change is not necessary for up to a year. The engine oil and filter must be changed at least once a year and, at this time, the system must be reset. Your dealer has trained service people who can perform this work and reset the system.

It is also important to check the oil regularly over the course of an oil drain interval and keep it at the proper level. If the system is ever reset accidentally, the oil must be changed at 5000 km since the last oil change.

Display of remaining engine oil life

The remaining engine oil life duration is displayed in the Driver Information Centre by the control indicator, followed by a percent value which shows the remaining engine oil life. For this purpose the ignition has to be switched on without engine running.

Driver Information Centre ⇨ 70.

Service Information ⇨ 160.

Control indicators

The control indicators described are not present in all vehicles. The description applies to all instrument versions. Depending on the equipment, the position of the control indicators may vary. Different displays are used depending on model. When the ignition is switched on, most control indicators will illuminate briefly as a functionality test.

The control indicator colours mean:

red	=	danger, important reminder
yellow	=	warning, information, fault
green	=	confirmation of activation
blue	=	confirmation of activation
white	=	confirmation of activation

Control indicators in the instrument

Turn signal

⇦⇨ illuminates or flashes green.

Flashes

The control indicator flashes if a turn signal or the hazard warning flashers are activated.

Fast flashing: failure of a turn signal light or associated fuse.

Bulb replacement ⇨ 128. Fuses ⇨ 137.

Turn signals ⇨ 80.

Seat belt reminder

Seat belt reminder on front seats

for driver's seat illuminates or flashes red.

² for front passenger seat illuminates or flashes red, when seat is occupied.

Illuminates

After the ignition is switched on. Illuminates for 100 seconds after starting the engine or reaching a specific distance or speed, or until the seat belt is fastened.

Flashes

Flashes for 100 seconds after starting the engine or reaching a specific distance or speed, or until the seat belt is fastened.

Fastening the seat belt ⇨ 39.

Airbag and belt tensioners

illuminates red.

When the ignition is switched on, the control indicator illuminates for about 4 seconds. If it does not illuminate, does not go out after 4 seconds or illuminates whilst driving, there is a fault in the belt tensioner or in the airbag system. The systems may fail to trigger in the event of an accident.

Deployment of the belt tensioners or airbags is indicated by continuous illumination of .

⚠Warning

Have the cause of the fault remedied immediately by your Holden Dealer.

Airbag system, belt tensioners ⇨ 40, ⇨ 37.

Charging system

illuminates or flashes red.

Illuminates for a few seconds after the ignition is switched on.

Illuminates when the engine is running

Stop, switch off engine. Battery is not charging. Engine cooling may be interrupted. In diesel engines, power to the brake servo unit may be cut. Seek the assistance of your Holden Dealer.

Malfunction indicator light

illuminates or flashes yellow.

It illuminates when the ignition is switched on and goes out shortly after the engine starts.

If illuminates while driving, there may be a malfunction in the emission monitoring system. Contact a Holden Dealer.

Service vehicle soon

illuminates.

It illuminates in combination with a warning code.

Vehicle messages ⇨ 72.

Brake and clutch system

BRAKE illuminates red.

Illuminates when the parking brake is actuated if the brake/clutch fluid level is too low or if there is a brake system fault ⇨ 127.

⚠Warning

Stop. Do not continue your journey. Contact your Holden Dealer.

Illuminates after the ignition is switched on if the manual parking brake is applied ⇨ 102.

Antilock brake system (ABS)

ABS illuminates yellow.

Illuminates for a few seconds after the ignition is switched on. The system is ready for operation when the control indicator goes out.

If the control indicator does not go out after a few seconds, or if it illuminates while driving, there is a fault in the ABS. The brake system remains operational but without ABS regulation.

Antilock brake system ⇨ 101.

Power steering

illuminates yellow.

Illuminates with power steering reduced

Power steering is reduced due to overheating of the system. Control indicator goes out when the system has cooled down.

Illuminates with power steering disabled

Failure in the power steering system. Contact your Holden Dealer.

Illuminates after interruption of power supply

The steering angle sensor must be calibrated to make the power steering system operational.

- For automatic calibration drive in straight line at constant slow speed until the control indicator goes out.
- If the control indicator remains illuminated, turn the steering wheel from limit position to limit position for manual calibration.

The control indicator goes out when the system is operational again.

Ultrasonic parking assist

(If fitted)

P illuminates yellow.

Illuminates for a few seconds after the ignition is switched on.

If the control indicator does not go out after a few seconds, or if it illuminates while driving, there is a fault in the system

or

Fault due to sensors that are dirty or covered by ice or snow

or

Interference due to external sources of ultra sound. Once the source of interference is removed, the system will operate normally.

Have the cause of the fault in the system remedied by your Holden Dealer.

Ultrasonic parking sensors ⇨ 106.

Electronic Stability Control

illuminates or flashes yellow.

Illuminates for a few seconds after the ignition is switched on.

Illuminates

A fault in the system is present. Continued driving is possible. Driving stability, however, may deteriorate depending on road surface conditions.

Have the cause of the fault remedied by your Holden Dealer.

Flashes

The system is active. Engine output may be reduced and the vehicle may be braked automatically to a small degree.

Electronic Stability Control off

illuminates yellow.

Illuminates for a few seconds after the ignition is switched on.

Illuminates when the system is deactivated.

Traction Control system off

illuminates yellow.

Illuminates for a few seconds after the ignition is switched on.

Illuminates when the system is deactivated.

Preheating

(If fitted)

illuminates yellow.

Illuminates for a few seconds after the ignition is switched on.

Illuminates when preheating is activated. Only activates when outside temperature is low.

Diesel particle filter

(If fitted)

illuminates or flashes yellow.

Illuminates for a few seconds after the ignition is switched on.

The diesel particle filter requires cleaning.

Continue driving until goes off. If possible do not allow engine speed to drop below 2000 rpm until goes off.

Illuminates

The diesel particle filter requires cleaning. Start cleaning process as soon as possible.

Flashes

The diesel particle filter is full. Start cleaning process immediately to avoid damage to the engine.

Diesel particle filter ⇨ 95.

Engine oil pressure

illuminates red.

Illuminates for a few seconds after the ignition is switched on.

Illuminates when the engine is running

Caution

Engine lubrication may be interrupted. This may result in damage to the engine and/or locking of the drive wheels.

1. Depress clutch.
2. Select neutral gear, set shift lever to **N**.
3. Move out of the flow of traffic as quickly as possible without impeding other vehicles.
4. Switch off ignition.

⚠Warning

When the engine is off, considerably more force is needed to brake and steer.

Do not remove key until vehicle has come to a standstill, otherwise the steering column lock could engage unexpectedly.

Check oil level before seeking assistance of your Holden Dealer ⇨ 124.

Low fuel

illuminates yellow.

Illuminates when level in fuel tank is too low.

Catalytic converter ⇨ 96.

Bleeding the diesel fuel system ⇨ 128.

Immobiliser

illuminates or continously flashes yellow.

Illuminates for a few seconds after the ignition is switched on.

Fault in the electronic immobiliser system. The engine cannot be started.

Have the cause of the fault remedied by your Holden Dealer.

Apply footbrake

Press Brake to Start Engine is displayed on the DIC.

Displayed when brake or clutch pedal needs to be depressed to start vehicles with electronic key system ⇨ 20.

Exterior light

illuminates green.

Illuminates when the parking lights are on ⇨ 78.

High beam

illuminates blue.

Illuminates when high beam is on and during headlight flash ⇨ 79.

Fog light

(If fitted)

illuminates green.

Illuminates when the front fog lights are on ⇨ 80.

Cruise control

illuminates white or green.

Illuminates white

The system is on.

Illuminates green

A certain speed is stored.

Cruise control ⇨ 104

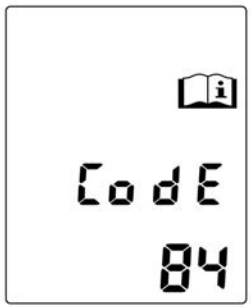
Door open

illuminates red or white.

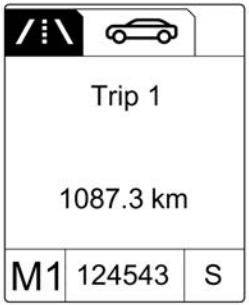
It illuminates when a door or the boot lid is open.

Information displays

Driver Information Center



The Driver Information Centre (DIC) is located in the instrument cluster between speedometer and tachometer.



Different displays are used depending on model.

Selecting functions

The menus and functions can be selected by the buttons on the turn signal lever.

Press the **MENU** button to switch between the menus.

The menu is locked when vehicle is moving.

The following menus can be selected:

- **Vehicle Information**
- **Trip/Fuel Information**

Depending on model, the menus can be selected by symbols in the top line of the display:

- **Vehicle Information**
- **Trip/Fuel Information**

Turn the adjuster wheel to scroll through a menu option or to set a numeric value.

Press the **SET/CLR** button to select a function or to confirm a message.

Vehicle personalisation ⇨ 75.

Trip computer ⇨ 74.

Colour-Info-Display

The vehicle has a Colour-Info-Display. The Display is located in the instrument panel above the faceplate of the Infotainment system.

Note
The Colour-Info-Display is a touchscreen.

System Settings, Personalisation ⇨ 75.

The Colour-Info-Display indicates:

- time ⇨ 60
- outside temperature ⇨ 60
- date ⇨ 60
- Infotainment system, see the Infotainment system handbook

- navigation (if fitted), see the Infotainment system handbook
- system settings
- settings for vehicle personalisation ⇨ 75

The type of information and how it is displayed depend on the equipment of the vehicle and the settings made.

Selecting menus and settings

Rotate the **MENU SEL** button to scroll through the available setup options, press the **MENU SEL** button to select. Alternatively select by touching the touchscreen.

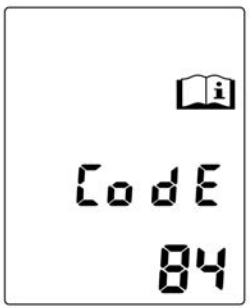
To exit a menu, press **BACK**.

Vehicle messages

Messages are given via the Driver Information Centre (DIC), the Info-Display or as warning and signal buzzers. Confirm warning messages with the **SET/CLR** button on the turn signal lever.

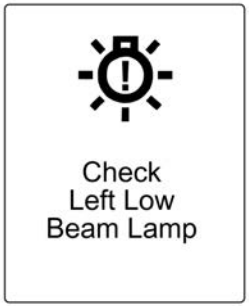
If necessary seek the assistance of your Holden Dealer.

Vehicle messages on the display



Depending on the model the vehicle messages are displayed as code numbers.

No.	Vehicle message
25	Left front turn indicator failure
26	Left rear turn indicator failure
27	Right front turn indicator failure
28	Right rear turn indicator failure
35	Replace battery in radio remote control
54	Water in diesel fuel filter
55	Diesel particle filter is full ⇨ 95
75	Service air conditioner
79	Top up engine oil ⇨ 124
82	Change engine oil soon ⇨ 160
84	Engine power is reduced
89	Service vehicle soon
95	Service airbag



Depending on the model, the vehicle messages may be displayed as text. Follow the instructions given in the messages.

The system displays messages regarding the following topics:

- Fluid levels
- Anti-theft alarm system
- Brakes
- Drive systems
- Ride control systems
- Cruise control
- Object detection systems
- Lighting, bulb replacement
- Wiper/washer system
- Doors, windows
- Remote control
- Seat belts
- Airbag systems
- Engine and transmission
- Diesel particle filter
- Battery
- Electronic key system

The vehicle message **No Remote Detected** is displayed when the electronic key system does not detect the presence of the electronic key to start the vehicle.

Warning chimes

When starting the engine or whilst driving

- If seat belt is not fastened.
- If a door or the boot lid is not fully closed when starting off.
- If a certain speed is exceeded with parking brake applied.
- If a warning code appears in the Driver Information Centre.
- If the parking assist detects an object (If fitted).

When the vehicle is parked and/or the driver's door is opened

- When the key is in the ignition switch.
- With parking lights on.

Trip computer

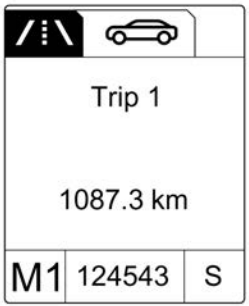
The menus and functions can be selected with the turn signal lever.

Turn the adjuster wheel to select one of the submenus:

- Trip meter
- Average consumption
- Range
- Average speed
- Instantaneous consumption
- Speed

Trip meter

Different displays are used depending on model.



To reset, press the **SET/CLR** button for a few seconds.

Average consumption

Display of average consumption. The measurement can be reset at any time.

To reset, press the **SET/CLR** button for a few seconds.

Range

Range is calculated from current fuel tank content and current consumption. The display shows average values.

After refuelling, the range is updated automatically after a brief delay.

When the fuel level in the tank is low the indicator ⬬ in the fuel gauge illuminates.

Average speed

Display of average speed. The measurement can be reset at any time.

To reset, press the **SET/CLR** button for a few seconds.

Instantaneous consumption

Display of the instantaneous consumption is displayed while the vehicle is moving.

Vehicle personalisation

The vehicle's parameters can be personalised by changing the settings in the Driver Information Centre and in the Info-Display.

Depending on vehicle equipment some of the functions described below might not be available.

Note

The Info-Display and the Driver Information Centre are both locked, when the vehicle is moving.

Settings in the Driver Information Centre

The vehicle may have **Unit** settings that can be selected by the **MENU** button on the turn signal lever.

Press the **MENU** button to select the menu **Unit**.

The **Unit** settings menu is displayed.

Different displays are used depending on model.

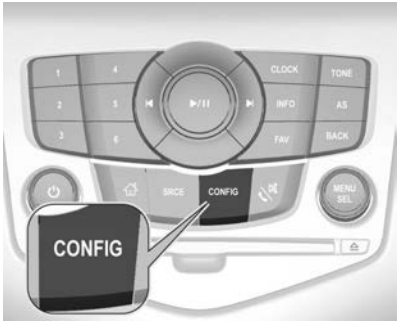
Press the **SET/CLR** button to select the unit setting mode.

- 1 - Imperial A
- 2 - Imperial B
- 3 - Metric

Turn the adjuster wheel ⇳ to select **3** (Metric). Press the **SET/CLR** button to confirm.

Settings in the Colour-Info-Display

Depending on the Infotainment system, the **CONFIG** button is located in different locations.



The following settings can be selected by pressing **CONFIG**, then scrolling through the setup options by rotating the **MENU SEL** knob and pressing **MENU SEL** to select.

Alternatively select by touching the touchscreen.

- **Languages**
- **Time & Date**
- **Radio**
- **Phone**
- **Navigation (if fitted)**
- **Display**
- **Vehicle**

In the corresponding submenus the following settings can be changed by rotating and pressing the **MENU SEL** knob:

Languages
Only English is available.

Time and Date
Clock ⇨ 60.

Radio Settings
See Infotainment system handbook.

Phone Settings
See Infotainment system handbook.

Navigation Settings (if fitted)
See Infotainment system handbook.

Display Settings
Selectable display settings:

- **Home Page Menu**: See Infotainment system handbook.
- **Rear Camera Option** (if fitted): The rear view camera can be switched on and off. The warning symbols can also be switched on and off.

- **Display Off**: Switches off the display. Press any button to switch back on.
- **Map Display** (if fitted): Select optimisation for daylight, darkness, or automatic depending on ambient lighting conditions.
- **Speed Limits** (if fitted): Select to display speed limits on the map when available.

Vehicle Settings

- **Climate and Air Quality**

  Auto fan speed: Change the default fan speed when in Auto mode (high, medium or low).

  Auto rear defog: Automatic activation of rear heated window.

- **Comfort & Convenience**

  Chime volume: Change the volume of warning chimes.

  Button Chime: Select to activate audible touchscreen button press feedback.

  Rear auto wipe in reverse gear (if fitted): Activate or deactivate automatically switching on of the rear window wiper when reverse gear is engaged.

- **Collision Detection Systems**

  Park assist: Activate or deactivate the ultrasonic parking assist.

- **Lighting**

  Vehicle Locator Lights: Activate or deactivate the welcome lighting.

  Exit Lighting: Activate or deactivate and change the duration of exit lighting.

- **Power Door Locks**

  Open Door Anti Lock Out: Activate or deactivate the automatic door locking function while a door is open.

  Auto Door Lock: Activate or deactivate the automatic door locking function, to occur after driving off.

  Auto Door Unlock: Activate or deactivate the automatic door unlocking function after switching off ignition.

- **Remote Lock / Unlock / Start**

  Remote Unlock Feedback: Activate or deactivate flashing the lights whilst unlocking.

  Remote Lock Feedback: Activate or deactivate the lights and horn feedback whilst locking.

  Remote Door Unlock: Change the configuration to unlock only the driver’s door or the whole vehicle whilst unlocking.

  Passive Door Unlock: Change the configuration to unlock only the driver’s door or the whole vehicle whilst unlocking with the Electronic key system and pressing the door button.

  Remote Left in Vehicle Reminder: Activate or deactivate the reminder chimes for left remote control in vehicle (Electronic key system).

- **Return To Factory Settings?**

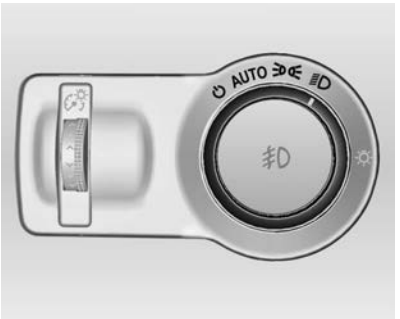
  Return To Factory Settings: Reset all settings to the default settings.

Lighting

Exterior lighting 78
Interior lighting 81
Lighting features 82

Exterior lighting

Light switch



Turn light switch:

AUTO = Automatic light control: Headlights are switched on and off automatically depending on external lighting conditions.

⏻ = Activation or deactivation of the automatic light control. Switch turns back to **AUTO**.

≡D = Parking lights

≡D = Headlights and parking lights

When switching on ignition, automatic light control is always active.

When lights are on, ≡D lights up. Control indicator ≡D ⇨ 70.

Automatic light control

Automatic light control function

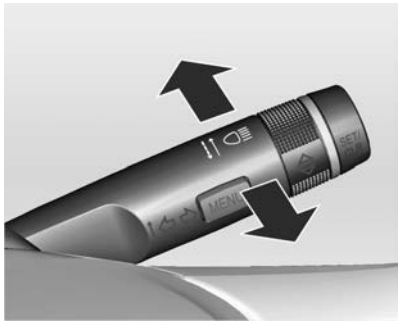
When the automatic light control function is switched on and the engine is running, the system switches the headlights and taillights on and off according to ambient light conditions.

Automatic headlight activation

During poor lighting conditions the headlights and taillights are switched on.

Furthermore the headlights are switched on if the windscreen wipers have been activated for several wipes.

High beam



To switch from low to high beam, push lever.

To switch to low beam, push lever again or pull.

⚠Warning

Always switch the high beam headlamps to low beam when you approach oncoming vehicles or when other vehicles ahead. High beam headlamps can temporarily blind other drivers, which could result in a collision.

Headlight flash

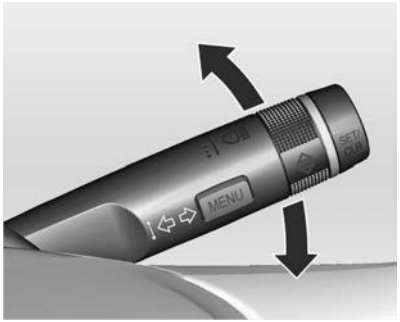
To activate the headlight flash, pull lever.

Hazard warning flashers

Operated with the ⚠ button.

The hazard warning flashers activate automatically if the airbags deploy.

Turn and lane-change signals



lever up = left indicator
lever down = right indicator

If the lever is moved past the resistance point, the indicator is switched on constantly. When the steering wheel moves back, the indicator is automatically deactivated.

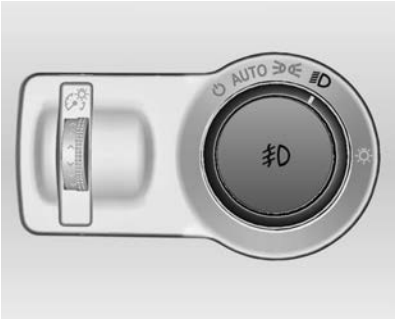
For three flashes, e.g. when changing lanes, press the lever until resistance is felt and then release.

Move the lever to the resistance point and hold for longer indication.

Switch the indicator off manually by moving the lever to its original position.

Front fog lights

(If fitted)



Operated with the ≢D button.

Reversing lights

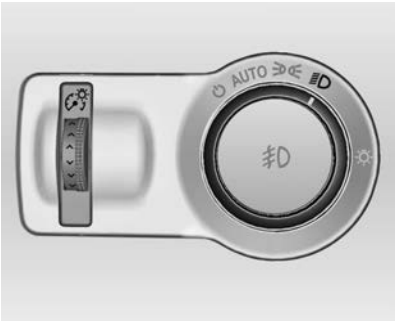
The reversing lights come on when the ignition is on and reverse gear is selected.

Misted light covers

The inside of the light housing may mist up briefly in poor, wet and cold weather conditions, in heavy rain or after washing. The mist disappears quickly by itself; to help switch on the headlights.

Interior lighting

Instrument panel illumination control



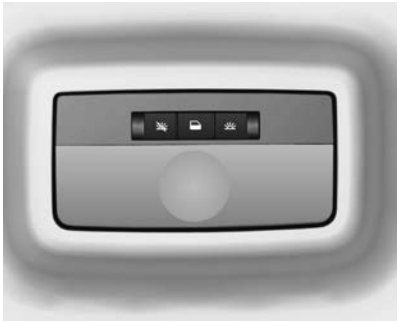
Brightness of the following lights can be adjusted when the exterior lights are on:

- Instrument panel illumination
- Steering wheel controls
- Info-Display
- Climate control operation elements
- Illuminated switches

Turn knob and hold until the desired brightness is obtained.

Interior lights

Courtesy light



During entry and exit of the vehicle, the courtesy lights automatically switch on and then off after a delay. It switches on for a short time even if the key is withdrawn from the ignition lock.

Operate rocker switch:

= automatic switching on and off
press = always on
press = always off

Reading lights

Operated with and buttons.

Lighting features

Entry lighting

Welcome lighting

Headlights, tail lights and interior lights illuminate for a short time when unlocking the vehicle with the remote control. This function facilitates retrieving the vehicle when it is dark.

The lighting switches off immediately when the ignition is turned to the accessory position.

Activation or deactivation of this function can be changed in the menu **Vehicle Settings** in the Info-Display. Vehicle personalisation ⇨ 75.

Entrance lighting

The following lights will additionally illuminate when driver`s door is opened:

- All switches
- Driver Information Centre
- Some interior lights

Exit lighting

Headlights and tail lights illuminate the way for an adjustable time after leaving the vehicle.

Activation, deactivation and duration of lighting of this function can be changed in the menu **Vehicle Settings** in the Info-Display. Vehicle personalisation ⇨ 75.

Battery discharge protection

Switching off electric lights

To prevent discharge of the battery when the ignition is switched off, some interior lights are switched off automatically after some time.

Climate control

Climate control systems 83
Air vents 89
Maintenance 90

Climate control systems

Air conditioning system

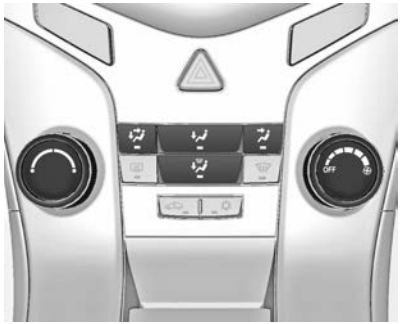
(If fitted)

Controls for:

- Temperature
- Air distribution
- Fan speed
- Demisting and defrosting
- Air recirculation
- Cooling
- Heated rear window

⚠Danger

Do not sleep in a vehicle with the air conditioning or heating system on. It may cause serious harm or death due to a drop in the oxygen level and/or body temperature.



Temperature

Adjust the temperature by turning the knob.

red = warm
blue = cold

Heating will not be fully effective until the engine has reached its operating temperature.

Air distribution

Select air outlet by pushing buttons.

- = to head area and footwell
- = to footwell
- = to head area via adjustable air vents
- = to windscreen and footwell

Fan speed

Adjust the air flow by switching the fan to the desired speed.

Air conditioning

Operated with the button and is functional only when the engine and fan are running.

The air conditioning system cools and dehumidifies (dries) the interior of the vehicle. Therefore condensation may form and drip from under the vehicle.

If cooling or drying is not required, switch the air conditioning system off to save fuel.

Note

When switching the air conditioning system on/off using the air conditioning button, the Info-Display will show **on** or **off**.

Air recirculation system

The air recirculation mode is operated with the button.

⚠Warning

Driving with recirculation mode for prolonged period of time can make you sleepy. Periodically turn to the outside air mode for fresh air.

The exchange of fresh air is reduced in air recirculation mode. In operation without cooling the air humidity increases, so the windows may mist up. The quality of the passenger compartment air deteriorates, which may cause the vehicle occupants to feel drowsy.

Demisting and defrosting the windows

Adjust the air flow by switching the fan to the desired speed.

- Push button : the air distribution is directed automatically to the windscreen.
- Set temperature control to warmest level.
- Switch on heated rear window .
- Open side air vents as required and direct them towards the door windows.

Note
When demist button is selected, the air conditioning is automatically switched on, but the air conditioning switch will not illuminate.

Heated rear window ⇨ 32.

Maximum cooling

Adjust the air flow by switching the fan to the desired speed.

Briefly open the windows so that hot air can disperse quickly.

- Switch on air conditioning .
- Switch on air recirculation system .
- Push air distribution switch .
- Set temperature control to coldest level.
- Set fan speed to highest level.
- Open all vents.

Indication of settings

(Info-Display)

Each change of settings is indicated in the Info-Display for a few seconds.

Selected functions are indicated by the LED of the activated button.

Note
The Info-Display will also show **on** or **off** when switching the air conditioning on/off via the air conditioning switch.

Electronic climate control system

(If fitted)

⚠Danger

Do not sleep in a vehicle with the air conditioning or heating system on. It may cause serious harm or death due to a drop in the oxygen level and/or body temperature.

Controls for automatic mode:

AUTO = automatic mode, all settings except temperature are choosen automatically by the system

Temperature = preselection of the desired temperature

The following functions can be adapted manually, disabling automatic mode:

Fan speed = selectable air flow

MODE = selectable air distribution

= demisting and defrosting

= switching system on or off

= switching cooling on or off

= air recirculation

AQS = air quality sensor

Heated rear window ⇨ 32.

The preselected temperature is automatically regulated. In the automatic mode the fan speed and air distribution automatically regulate the air flow.

The system can be manually adapted by use of air distribution and fan speed controls.

Each change of settings is indicated in the Info-Display for a few seconds.

Activated functions are indicated by the LED in the button.

The electronic climate control system is only fully operational when the engine is running.

Automatic mode AUTO

Basic setting for maximum comfort:

- Press **AUTO** button, the air conditioning is activated automatically.
- Open all air vents.
- Set pre-selected temperature using left rotary knob.

The fan speed regulation in automatic mode can be changed in the menu **Vehicle settings/Climate and air quality**.

Vehicle personalisation ⇨ 75

Air distribution is selected automatically in automatic mode. The air vents should therefore always be open.

Temperature preselection

Set temperature to the desired value by turning the knob.

red = warm
blue = cold

If the minimum temperature is set, the climate control system runs at maximum cooling.

If the maximum temperature is set, the climate control system runs at maximum heating.

Demisting and defrosting the windows

- Press button .
- Temperature and air distribution are set automatically and the fan runs to higher speed.
- To return to automatic mode: press button .

Switch on heated rear window .

Heated rear window ⇨ 32.

Manual settings

Climate control system settings can be changed by activating the buttons and rotary knobs as follows. Changing a setting will deactivate the automatic mode.

Fan speed

Turn right rotary knob. The selected fan speed is indicated by the number in the display.

To return to automatic mode: Press **AUTO** button.

Air distribution MODE

Press **MODE** button once or repeatedly for desired adjustment. The setting of air distribution is indicated on the Info-Display.

- = to windscreen, head area and foot well
- = to windscreen and foot well
- = to foot well
- = to head area via adjustable air vents
- = to head area via adjustable air vents and foot well

Return to automatic air distribution: Deactive corresponding setting or press button **AUTO**.

Cooling

Activate or deactivate with the button.

The air conditioning system cools and dehumidifies (dries) the interior of the vehicle. Therefore condensation may form and drip from under the vehicle.

If cooling or drying is not required, switch the air conditioning system off to save fuel.

Note
When switching the air conditioning system on/off using the air conditioning button, the Info-Display will show **on** or **off**.

Manual air recirculation mode

The manual air recirculation mode is operated with the button.

⚠Warning

The exchange of fresh air is reduced in air recirculation mode. In operation without cooling the air humidity increases, so the windows may mist up. The quality of the passenger compartment air deteriorates, which may cause the vehicle occupants to feel drowsy.

Air quality sensor AQS

(If fitted)

The air quality sensor detects poor quality ambient and switches automatically to internal air.

System switching on or off ⏻

Pushing button ⏻ switches all functions of heating, ventilation and cooling system on or off.

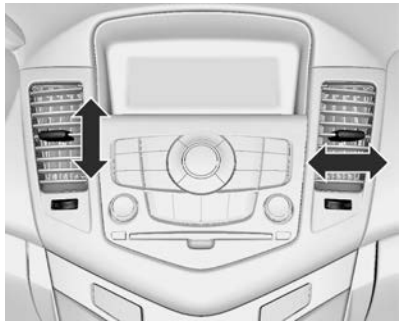
Basic settings

Some settings can be changed in the menu **Vehicle settings/Climate and air quality** in the Info-Display. Vehicle personalisation ⇨ 75.

Air vents

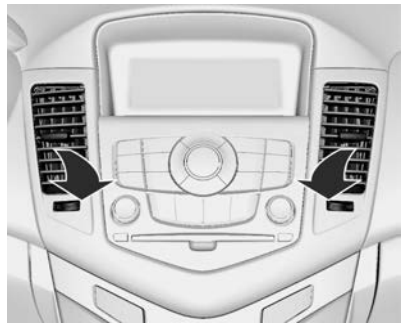
Adjustable air vents

At least one air vent must be open while cooling is on in order to prevent the evaporator from icing up due to lack of air movement.



To open vent, turn the adjuster wheel to ⁞⁞⁞.

Direct the flow of air by tilting and swivelling the slats.



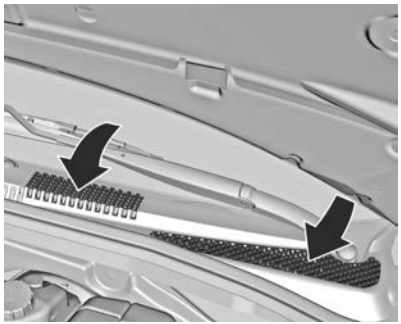
To close the vent, turn the adjuster wheel fully to the left.

Fixed air vents

Additional air vents are located beneath the windscreen and door windows and in the footwells.

Maintenance

Air intake



The air intake in front of the windscreen in the engine compartment must be kept clear to allow air intake. Remove any leaves, dirt or snow.

Pollen filter

Manual controlled pollen filter

The filter cleans dust, soot, pollen, spore and smell (combi filter) from the air entering the vehicle through the air intake.

Air conditioning regular operation

In order to ensure continuously efficient performance, cooling must be operated for a few minutes once a month, irrespective of the weather and time of year. Operation with cooling may not be possible when outside temperature is low.

Service

For optimal cooling performance, it is recommended to have the climate control system checked annually by your Holden Dealer.

- Functionality and pressure test
- Heating functionality
- Leakage check

- Check of drive belts
- Cleaning of condenser and evaporator drainage
- Performance check

Driving and operating

Driving hints 92
Starting and operating 92
Engine exhaust 95
Automatic transmission 97
Manual transmission 101
Brakes 101
Ride control systems 103
Cruise control 104
Object detection systems 106
Fuel 109
Trailer hitch 111

Driving hints

Control of the vehicle

Never coast with engine not running

⚠ Danger

Many systems will not function in this situation (e.g. brake servo unit, power steering). Driving in this manner is a danger to yourself and others.

Pedals

To ensure the pedal travel is uninhibited, there must be no mats in the area of the pedals.

Starting and operating

New vehicle running-in

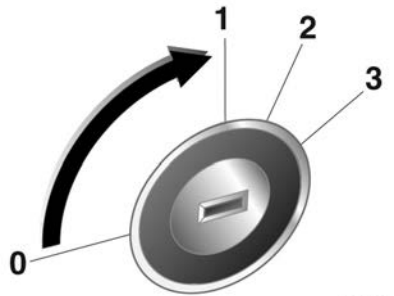
Use the following precautions for the first few hundred kilometres to improve the performance and economy of your vehicle and add to its long life:

- Avoid full-throttle starts.
- Do not race the engine.
- Avoid hard stops except in emergencies. This will allow your brakes to bed in properly.
- Avoid quick starts, sudden accelerations, and prolonged high-speed driving in order to avoid damage to the engine and to conserve fuel.
- Avoid full-throttle acceleration in low gear.
- Do not tow any other vehicle.

During the running-in period fuel and engine oil consumption may be higher and the cleaning process of the diesel particle filter may take place more often.

Diesel particle filter ⇨ 95.

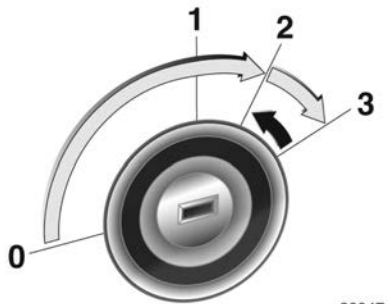
Ignition switch positions



0 = Ignition off
1 = Ignition off, steering wheel lock released
2 = Ignition on, diesel engine preheating
3 = Starting

Starting the engine

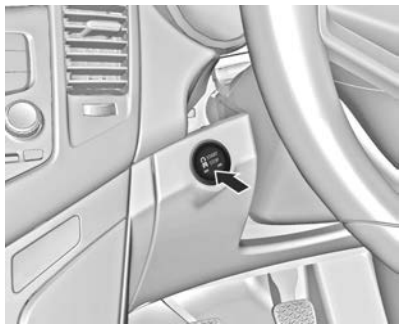
Starting engine with the ignition switch



- Turn the key to position **1**, move the steering wheel slightly to release the steering wheel lock
- Manual transmission: press and hold clutch pedal
- Automatic transmission: press and hold brake pedal and move shift lever to **P** or **N**
- Do not accelerate
- Diesel engine: turn the key to position **2** for preheating until control indicator ᔓ goes out
- Turn the key to position **3** and release when engine is running

Before restarting or to switch off the engine, turn key back to **0**.

Starting engine with the Start/Stop button



- The electronic key must be inside the vehicle
- Manual transmission: depress clutch and brake

- Automatic transmission: depress brake and move shift lever to **P** or **N**
- Do not accelerate
- Press the Start/Stop button. The green LED will illuminate

To switch off the engine, press the button again.

Switching off the engine

- Push **Start/Stop** button while engine is running and vehicle stationary to switch off the engine.
- In case of emergency the engine can be switched off while the vehicle is running: push **Start/Stop** button twice.

⚠Warning

When the engine is not running, considerably more force is needed to brake and steer.

Accessory power mode

Push **Start/Stop** button once without pressing clutch or brake pedal: **Accessory power mode** is active, the yellow LED in the button illuminates. In this mode steering wheel lock is released and some electrical functions are operable.

To start the engine from **Accessory power mode**, press clutch pedal (manual transmission) or brake pedal (automatic transmission) and push **Start/Stop** button once more.

Ignition on power mode

Push and hold **Start/Stop** button for 5 seconds without pressing clutch or brake pedal: **Ignition on power mode** is active, the green LED in the button illuminates. In this mode all electrical functions are operable and Diesel engine is preheating.

To start the engine from **Ignition on power mode**, press clutch pedal (manual transmission) or brake pedal (automatic transmission) and push **Start/Stop** button once more.

Note

Do not put the electronic key in the boot or in front of the Info-Display.

Electronic key manual override

If either the battery of the electronic key is weak or the radio remote control fails , the driver's door can be locked or unlocked with the mechanical key ⇨ 19.

The mechanical key can only lock or unlock the driver's door. Unlocking the entire vehicle ⇨ 21. On vehicles with anti-theft alarm system, the alarm may be triggered when the vehicle is unlocked. Deactivate the alarm by switching on the ignition.

Locate the small circular cover in the bottom of the cupholder in the centre console. Place the electronic key over the cover with the Holden Logo facing up.

Press the **Start/Stop** button.

To switch off the engine, press the **Start/Stop** button for at least 2 seconds.

Lock the driver's door with the mechanical key. Locking the entire vehicle ⇨ 21.

This option is intended for manual override when the battery of the electronic key is weak, the radio remote control fails or there is interference from external higher power radio waves. If the issue persists seek the assistance of your Holden Dealer.

Overrun cut-off

The fuel supply is automatically cut off during overrun, i.e. when the vehicle is driven with a gear engaged but accelerator is released.

Parking

- Do not park the vehicle on an easily ignitable surface. The high temperature of the exhaust system could ignite the surface.
- Always apply parking brake without pressing release button. Apply as firmly as possible on downhill or uphill slopes. Depress the footbrake at the same time to reduce operating force.
- Switch off the engine and ignition. Turn the steering wheel until the steering wheel lock engages.
- If the vehicle is on a level surface or uphill slope, engage first gear or set the shift lever to **P** before switching off the ignition. On an uphill slope, turn the front wheels away from the kerb.

  If the vehicle is on a downhill slope, engage reverse gear or set the shift lever to **P** before switching off the ignition. Turn the front wheels towards the kerb.
- Lock the vehicle.

Engine exhaust

⚠ Danger

Engine exhaust gases contain poisonous carbon monoxide, which is colourless and odourless and could be fatal if inhaled.

If exhaust gases enter the interior of the vehicle, open the windows. Have the cause of the fault rectified by your Holden Dealer.

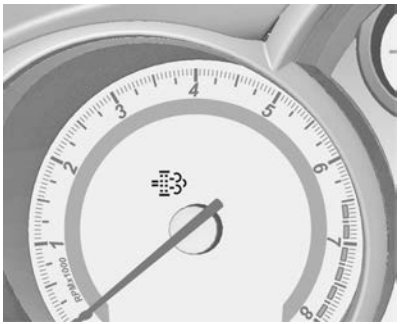
Avoid driving with an open boot lid, otherwise exhaust gases could enter the vehicle.

Diesel particle filter

(If fitted)

The diesel particle filter system filters harmful soot particles out of the exhaust gases. The system includes a self-cleaning function that runs automatically during driving without any notification. The filter is cleaned by periodically burning off the soot particles at high temperature. This

process takes place automatically under set driving conditions and may take up to 25 minutes. Typically it needs between 7 and 12 minutes. Fuel consumption may be higher during this period. The emission of smells and smoke during this process is normal.



Under certain driving conditions, e.g. short distances, the system cannot clean itself automatically.

If the cleaning of the filter is required and if previous driving conditions did not enable automatic cleaning, it will be indicated by the control indicator and **CodE 55** in the Driver Information Centre.

illuminates when diesel particle filter requires cleaning. Start cleaning process as soon as possible.

flashes when diesel particle filter is full. Start cleaning process immediately to avoid damage to the engine.

Cleaning process

To activate cleaning process, continue driving, keep engine speed above 2000 revolutions per minute. Shift down a gear if necessary. Diesel particle filter cleaning is then started.

If illuminates additionally, cleaning is not possible, seek the assistance of your Holden Dealer.

Caution
If the cleaning process is interrupted, there is a risk of provoking severe engine damage.

Cleaning takes place quickest at high engine speeds and loads.

Do not switch off the engine until the cleaning process is complete. The control indicator extinguishes as soon as the self-cleaning operation is complete.

Catalytic converter

The catalytic converter reduces the amount of harmful substances in the exhaust gas.

Caution
Fuel specifications other than those listed on pages ⇨ 109, ⇨ 169 could damage the catalytic converter or electronic components. Unburnt petrol will overheat and damage the catalytic converter. Therefore avoid excessive use of the starter, running the fuel tank dry and starting the engine by pushing or towing.

In the event of misfiring, uneven engine running, a reduction in engine performance or other unusual problems, have the cause of the fault rectified by your Holden Dealer as soon as possible. In an emergency, driving can be continued for a short period, keeping vehicle speed and engine speed low.

Automatic transmission

The automatic transmission permits manual gearshifting (manual mode) or automatic gearshifting (automatic mode).

Transmission display

The mode or selected gear is shown in the transmission display.

Different displays are used depending on model.

Selector lever

P = park position, wheels are locked, engage only when the vehicle is stationary and the parking brake is applied
R = reverse gear, engage only when vehicle is stationary
N = neutral
D = automatic mode with all gears.

The shift lever is locked in **P**. To move, switch on ignition, apply brake pedal and push release button.

To engage **P** or **R**, push the release button.

To start the engine, press the brake pedal in either **P** or **N** position.

Do not accelerate while engaging a gear. Never depress the accelerator pedal and brake pedal at the same time.

When a gear is engaged, the vehicle slowly begins to creep when the brake is released.

Engine braking

To utilise the engine braking effect, select a lower gear in good time when driving downhill.

Refer to manual mode ⇨ 99

Rocking the vehicle

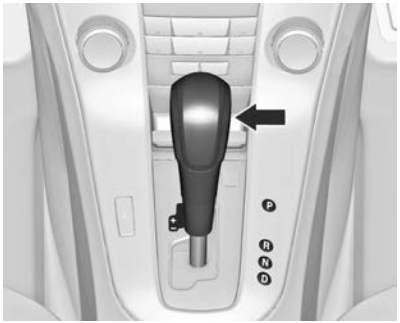
Rocking the vehicle is only permissible if the vehicle is stuck in sand, mud or snow. Move the shift lever between **D** and **R** in a repeat pattern. Do not race the engine and avoid sudden acceleration.

Parking

Apply the parking brake, engage **P** and remove ignition key.

Sport mode

(If fitted)



The sport mode can be selected where maximum responsiveness is required.

When operated in sport mode, the transmission will delay upshifts and allow earlier downshifts.

In addition, the transmission can sense enthusiastic driving, at which point it may delay upshifting and downshift earlier when braking. This is designed to maximise vehicle performance.

To activate sport mode:

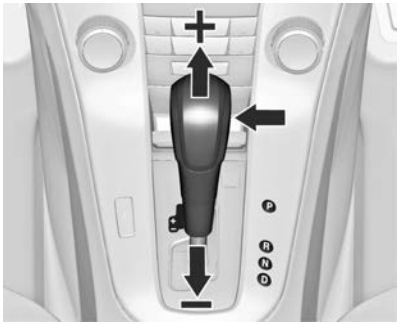
1. Move shift lever to position **D**.
2. Push the shift lever to the left.

   Sport Mode On will appear for 3 seconds in the Driver Information Centre.

   Do not move the shift lever to **+** or **-**, otherwise the manual mode will be enabled.
3. To return to normal mode, move the shift lever to the right, to position **D**.

   Sport Mode Off will appear for 3 seconds in the Driver Information Centre.

Manual mode



Move shift lever out of position **D** towards the left and then forwards or backwards.

+ = Shift to a higher gear.

− = Shift to a lower gear.

If a higher gear is selected when vehicle speed is too low, or a lower gear when vehicle speed is too high, the shift is not executed.

If engine speed is too low, the transmission automatically shifts to a lower gear above a specific vehicle speed.

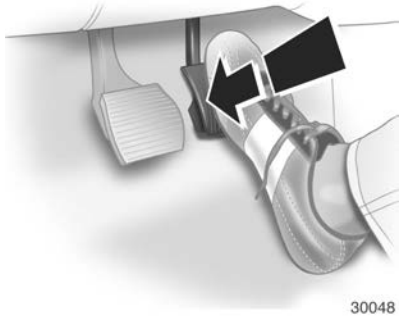
No automatic shifting to a higher gear takes place at high engine revolutions.

For reasons of safety, kickdown is also available in manual mode.

Electronic driving programmes

- Following a cold start, the operating temperature programme increases engine speed to quickly bring the catalytic converter to the required temperature.
- The automatic neutral shift function automatically shifts to idling when the vehicle is stopped with a forward gear engaged.

Kickdown



If the accelerator pedal is pressed past the pressure point, the transmission shifts to a lower gear depending on engine speed.

Fault

In the event of a fault, illuminates. Additionally a code number is displayed in the Driver Information Centre. Vehicle messages ⇨ 72.

The transmission no longer shifts automatically. Continued travel is possible with manual shifting.

Only the highest gear is available. Depending on the fault, 2nd gear may also be available in manual mode.

Have the cause of the fault remedied by your Holden Dealer.

Interruption of power supply

In the event of an interruption of power supply, the shift lever cannot be moved out of the **P** position. The ignition key cannot be moved out of the ignition lock.

If the battery is discharged, start the vehicle using jump leads ⇨ 154.

If the battery is not the cause of the fault, release shift lever and remove ignition key from ignition lock.

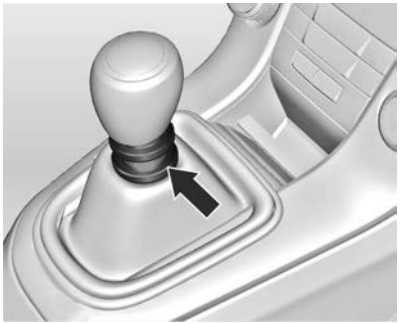
Release shift lever

1. Apply parking brake.

2. Open cover to the right of the shift lever.

3. Insert a screwdriver into the opening as far as it will go and move the shift lever out of **P**. If **P** is engaged again, the shift lever will be locked in position again. Have the cause of the power supply interruption remedied by your Holden Dealer.
4. Close cover.

Manual transmission



Reverse: when the vehicle is stationary, depress the clutch pedal and then pull up the ring on the shift lever and engage the gear.

If the gear does not engage, set the lever in neutral, release the clutch pedal and depress again; then repeat gear selection.

Do not grind the clutch unnecessarily.

When operating, depress the clutch pedal completely. Do not use the pedal as a foot rest.

Caution
It is not advisable to drive with your hand resting on the shift lever.

Brakes

The brake system comprises two independent brake circuits.

If a brake circuit fails, the vehicle can still be braked using the other brake circuit. However, braking effect is achieved only when the brake pedal is depressed firmly. Considerably more force is needed for this. The braking distance is extended. Seek the assistance of your Holden Dealer before continuing your journey.

When the engine is not running, the support of the brake servo unit disappears once the brake pedal has been depressed once or twice. Braking effect is not reduced, but braking requires significantly greater force. It is especially important to bear this in mind when being towed.

Control indicator ⓘ ⇨ 67.

Antilock brake system

Antilock brake system (ABS) prevents the wheels from locking.

ABS starts to regulate brake pressure as soon as a wheel shows a tendency to lock. The vehicle remains steerable, even during hard braking.

ABS control is made apparent through a pulse in the brake pedal and the noise of the regulation process.

For optimum braking, keep the brake pedal fully depressed throughout the braking process, despite the fact that the pedal is pulsating. Do not reduce the pressure on the pedal.

Control indicator (ABS) ⇨ 67.

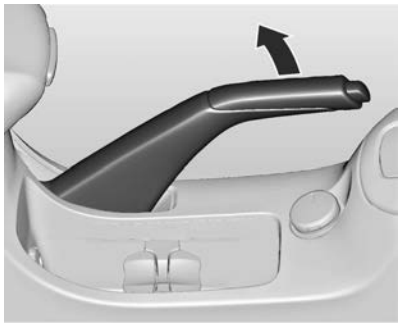
Fault

⚠Warning

If there is a fault in the ABS, the wheels may be liable to lock due to braking that is heavier than normal. The advantages of ABS are no longer available. During hard braking, the vehicle can no longer be steered and may swerve.

Have the cause of the fault remedied by your Holden Dealer.

Parking brake



Always apply parking brake firmly without operating the release button, and apply as firmly as possible on a downhill or uphill slope.

When applying the parking brake, depress the foot brake firmly at the same time.

To release the parking brake, pull the lever up slightly, press the release button and fully lower the lever.

Control indicator (BRAKE) ⇨ 67.

Brake assist

If the brake pedal is depressed quickly and forcefully, maximum brake force is automatically applied (full braking).

Maintain steady pressure on the brake pedal for as long as full braking is required. Maximum brake force is automatically reduced when the brake pedal is released.

Ride control systems

Traction Control system

Traction control system (TC) improves driving stability when necessary, regardless of the type of road surface or tyre grip, by preventing the driving wheels from spinning.

As soon as the driving wheels start to spin, engine output is reduced and the wheels are braked individually. This considerably improves the driving stability of the vehicle on slippery road surfaces.

TC is operational as soon as the control indicator extinguishes after engine start up.

When TC is active flashes.

⚠ Warning

Do not let this special safety feature tempt you into taking risks when driving.

Adapt speed to the road conditions.

Control indicator ⇨ 68.

Deactivation

TC can be switched off when spinning of drive wheels is required: press button .

Control indicator illuminates.

TC is reactivated by pressing the button again.

TC is also reactivated the next time the ignition is switched on.

Note

On manual transmission vehicles, the button is located on the right side of the console.

Electronic Stability Control

Electronic stability control (ESC) improves driving stability when necessary, regardless of the type of road surface or tyre grip. It also prevents the driving wheels from spinning.

As soon as the vehicle starts to swerve (understeer/oversteer), engine output is reduced and the wheels are braked individually. This considerably improves the driving stability of the vehicle on slippery road surfaces.

ESC is operational as soon as the control indicator extinguishes after engine start up.

When ESC is active flashes.

⚠Warning

Do not let this special safety feature tempt you into taking risks when driving.

Adapt speed to the road conditions.

Control indicator ⛐ ⇨ 68.

Deactivation

For very high-performance driving ESC can be deactivated: hold button ⛐ depressed for approx. 7 seconds.

Control indicator ⛐ illuminates and both ESC and TC are deactivated.

ESC is reactivated by pressing the ⛐ button again. If the TC System was previously disabled, both TC and ESC are reactivated.

ESC is also reactivated the next time the ignition is switched on.

Note
On manual transmission vehicles, the ⛐ button is located on the right side of the console.

Cruise control

The cruise control can store and maintain speeds. Deviations from the stored speeds may occur when driving uphill or downhill.

For safety reasons the cruise control cannot be activated until the foot brake has been operated once after engine start up.

With automatic transmission, only activate cruise control in automatic mode.

Control indicator ⛐ ⇨ 70.

Switching on

Press rocker switch at the upper end, control indicator illuminates white.

Activation

Accelerate to the desired speed and turn thumb wheel to **SET/-**, the current speed is stored and maintained. Control indicator illuminates green. Accelerator pedal can be released.

Vehicle speed can be increased by depressing the accelerator pedal. When the accelerator pedal is released, the previously stored speed is resumed.

Increase speed

With cruise control active, hold thumb wheel turned to **RES/+** or briefly turn to **RES/+** repeatedly: speed increases continuously or in small increments.

Alternatively accelerate to the desired speed and store by turning to **RES/+**.

Reduce speed

With cruise control active, hold thumb wheel turned to **SET/-** or briefly turn to **SET/-** repeatedly: speed decreases continuously or in small increments.

Deactivation

Press button , control indicator illuminates white. Cruise control is deactivated. The stored speed is maintained.

Automatic deactivation:

- vehicle speed below approx. 30 km/h,
- the brake pedal is depressed,
- the clutch pedal is depressed,
- shift lever in **N**,
- the Traction Control system or Electronic Stability Control is operating.

Resume stored speed

Turn thumb wheel to **RES/+** at a speed above 40 km/h. The stored speed will be obtained.

Switching off

Press rocker switch at the lower end, control indicator is off. The stored speed is deleted. Switching off the ignition deletes also the stored speed.

Object detection systems

Parking assist

(If fitted)

The parking assist makes parking easier by measuring the distance between the vehicle and rear obstacles, and giving acoustic signals. It is the driver, however, who bears full responsibility for parking manoeuvre.

The system consists of four ultrasonic parking sensors in the rear bumper.

Control indicator P⁄▲ ⇨ 68.

Note

Attached parts in the detection area cause system malfunction.

Activation

When reverse gear is engaged, the system is activated automatically.

An obstacle is indicated by acoustic warnings. The interval between the warnings becomes shorter as the vehicle gets closer to the obstacle. When the distance is less than 40 cm, the acoustic warning sounds continuously.

Deactivation

The system is deactivated automatically when:

- the vehicle is driven above 10 km/h
- the vehicle is parked
- a fault in the system occurs.

Fault

In the event of a fault in the system, P⁄▲ illuminates.

Additionally if the system does not work due to temporary conditions like snow covered sensors, P⁄▲ illuminates.

Important hints for using the parking assist systems

⚠Warning

Under certain circumstances, various reflective surfaces on objects or clothing as well as external noise sources may cause the system to fail to detect obstacles.

Caution

Performance of the sensor can be reduced when sensors are covered, e.g. by ice or snow.

Performance of the parking assist system can be reduced due to heavy loading.

Special conditions apply if there are taller vehicles involved (e.g. off-road vehicles, mini vans, vans). Object identification in the upper part of these vehicles cannot be guaranteed.

Objects with a very small reflection cross section, like objects of narrow size or soft materials, may not be detected by the system.

Parking assist will not avoid a collision with objects which are out of the detection range of the sensors.

Note
Sensor could detect a nonexisting object (echo disturbance) caused by external acoustical or mechanic disturbances.

Rear view camera

(If fitted)

The rear view camera assists the driver when reversing by displaying a view of the area behind the vehicle.

The view of the camera is displayed in the Colour-Info-Display.

⚠Warning

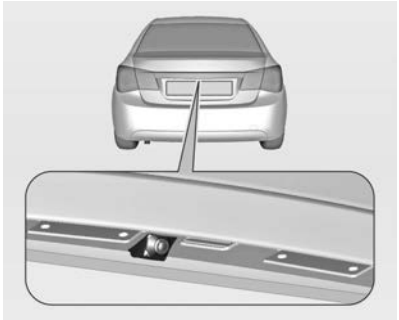
The rear view camera does not replace driver vision. Note that objects that are outside the camera's field of view and the advanced parking assist sensors, e.g. below the bumper or underneath the vehicle, are not displayed.

Do not reverse the vehicle by only looking at the Info-Display and check the surrounding behind and around the vehicle before reversing.

Activation

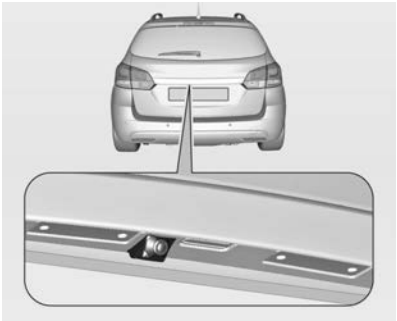
Rear view camera is automatically activated when reverse gear is engaged.

Functionality



4 Door sedan: The camera is mounted under the boot lid moulding.

5 Door hatchback: The camera is mounted in the rear bumper above the license plate.



Sportwagon: The camera is mounted under the boot lid moulding.

The camera has a viewing angle of 130°. Due to the positioning of the camera the rear bumper can be seen on the display as a guide to position.

The area displayed by the camera is limited. The distance of the image that appears on the display differs from the actual distance.

Warning symbols

Warning symbols are indicated as triangles ⚠on the picture which show obstacles detected by the rear sensors of the advanced parking assist.

The function can be deactivated in the menu **Vehicle Settings** in the Info-Display. Vehicle personalisation ⇨ 75.

Display settings

Brightness can be set with the instrument panel illumination control ⇨ 81.

Deactivation

The camera is deactivated when a certain forward speed is exceeded or if reverse gear is not engaged for approx. 10 seconds.

Activation or deactivation of the rear view camera can be changed in the menu **Vehicle Settings** in the Info-Display. Vehicle personalisation ⇨ 75.

Fault

The rear view camera may not operate properly when:

- the surrounding is dark,
- the sun or the beam of headlights is shining directly into the camera lens,
- ice, snow, mud, or anything else covers the camera lens. Clean the lens, rinse it with water, and wipe it with a soft cloth,
- the boot lid is not closed correctly (4 Door sedan),
- the vehicle had a rear end accident,
- there are extreme temperature changes.

Fuel

Fuel for petrol engines

Use clean, unleaded petrol of regular 91 Research Octane Number (RON) rating or higher.

Use of Premium unleaded petrol (95 RON or higher) on the 1.4L and 1.8L engines may provide a small improvement in performance and fuel economy.

Use of Premium unleaded petrol (95 RON or higher) on the 1.6L engine is recommended.

Purchasing your fuel from a reputable fuel retailer may reduce the risk of purchasing fuel which contains abnormal fuel properties.

Caution

Use of fuel with too low an octane rating could lead to uncontrolled combustion and engine damage.

Equivalent standardised fuels with an ethanol content of max. 10% by volume may be used.

⚠Warning

Under no circumstances should you use fuel containing more than 10% ethanol. Use of such fuels may result in engine malfunction, starting and operating difficulties, and materials degradation. These adverse effects could result in permanent damage to your vehicle and the risk of personal injury. Purchasing your fuel from a reputable fuel retailer may reduce the risk of purchasing fuel with more than 10% ethanol or fuel which contains abnormal fuel properties.

Fuel for diesel engines

Diesel engines must be operated only on commercially available diesel fuel meeting the requirements of Euro standard EN 590. The use of biodiesel containing up to 5 % fatty acid methyl ester ("FAME"), also known as "B5", is also permitted provided that the FAME meets the Euro standard EN 14214 and the resultant B5 blend meets the Euro standard EN 590.

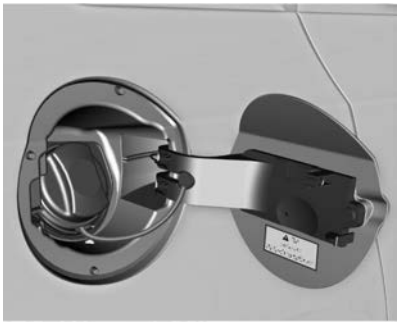
Do not use marine diesel oils, heating oils or entirely or partially plant-based diesel fuels, such as rape seed oil or bio diesel containing more than 5 % FAME.

⚠Warning

Use only biodiesel blends containing up to a maximum of 5 % FAME that meets Euro standard EN 590. Purchasing your fuel from a reputable fuel retailer may reduce the risk of purchasing fuel with more than 5 % FAME or fuel which contains abnormal fuel properties. Use of any other biodiesel that does not have the certification referred to above, or has FAME content exceeding 5 % may cause serious damage to your vehicle (including engine

failure). Damage attributable to the use of non-certified biodiesel is not covered by your New Vehicle Warranty. In no event will GM Holden be responsible or bear any liabilty for any damage or loss that may arise in connection with the use of any fuel that does not meet this specification.

Refuelling



⚠ Danger

Before refuelling, switch off engine and mobile phones.

Follow the operating and safety instructions of the filling station when refuelling.

⚠ Danger

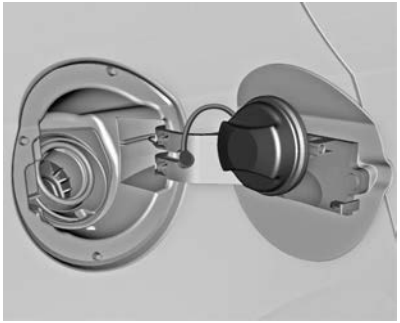
Fuel is flammable and explosive. No smoking. No naked flames or sparks.

If you can smell fuel in your vehicle, have the cause of this remedied immediately by your Holden Dealer.

Fuel filler flap is located at right rear side of vehicle.

The fuel filler flap can only be opened if the vehicle is unlocked. Release the fuel filler flap by pushing the flap.

To open, turn the cap slowly anti-clockwise.



The fuel filler cap can be retained in the bracket on the fuel filler flap.

When refuelling, fully insert the pump nozzle.

Caution
Wipe off any overflowing fuel immediately.

To close, turn the fuel filler cap clockwise until it clicks.

Close the flap and latch.

Fuel filler cap

Only a genuine fuel filler cap provides full functionality. Diesel-engined vehicles have special fuel filler caps.

Trailer hitch

General information

The word ‘Trailer’ is used throughout this section and is intended to include all types of towed vehicles, such as a caravan, boat trailer or any other special purpose trailer.

The vehicle is designed primarily as a passenger vehicle, so handling, durability and economy may be affected by towing a trailer. Your Holden Dealer will help supply and install towing equipment to suit your requirements.

Trailer towing ⇨ 112.

Trailer towing

Overloading

Never exceed the loads given for the towing equipment fitted to the vehicle. For your safety and the vehicle's durability, all mandatory equipment must be fitted. Otherwise you may void the New Vehicle Warranty, to the extent that Holden considers the overloading or missing equipment to have affected the specifications or quality of the vehicle.

Maximum towing capacities (kg)

Engine	Transmission	Type	Caravan/ Trailer
Petrol (1.4L)	Automatic transmission	With brake	1200
		Without brake	695
Petrol (1.6L), Petrol (1.8L)	Manual transmission	With brake	1200
		Without brake	695
	Automatic transmission	With brake	1200
		Without brake	695
Diesel (2.0L)	Automatic transmission	With brake	1200
		Without brake	750

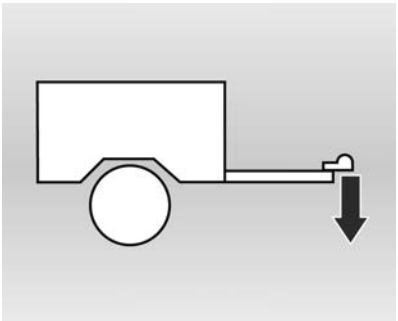
Mandatory equipment: Holden 1,200 kg rated towbar and Holden trailer wiring harness.

⚠ Warning
Holden towing equipment is recommended where it is available. Where it is not available, no recommendation is made as to the make of equipment to be used. Holden will not accept liability for defects occurring in inappropriate towing equipment or for defects in the vehicle arising from the use of such equipment or for loss or injury caused by use of such equipment. The use of inappropriate equipment may void your New Vehicle Warranty to the extent that Holden considers the overloading or missing equipment to have affected the specifications or quality of your vehicle.

Towing with Electronic Stability Control (ESC)

You may hear noise from the ESC modulator when it is working. The ESC is reacting to the vehicle movement caused by the trailer, which mainly occurs during cornering. This is considered normal when towing heavier trailers.

Recommended procedure for attaching a trailer



When a trailer is hitched to the vehicle, it places a weight on the tow bar. This weight is called the ‘tow ball load’.

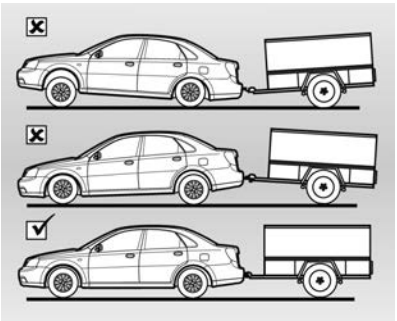
If the tow ball load is too light or too heavy, the steering and handling of the vehicle may be affected.

As a general guideline, for single axle trailers, the ball load should be approximately 10 % of the loaded trailer mass. For heavy trailers with more than one axle, the ball load should be in the range of 5 % - 10 % of the loaded trailer mass.

Note
The tow ball load should not exceed 75 kg.

The tow ball load can be adjusted by correctly packing the contents of the trailer. For example, by moving items forwards or backwards within the trailer so as to change the balance of the trailer.

Check the tow ball load before coupling the trailer to the towing vehicle.



If the attitude of the vehicle is compromised, adjust the vehicle and trailer load within the specifications to improve the attitude. If the vehicles attitude cannot be corrected, use a load distribution hitch.

Note

At no time may the maximum towing capacity exceed the maximums specified. Refer to Maximum towing capacity previously in this chapter.

At no time may the total rear axle load exceed the maximums specified. Refer to Loading the vehicle previously in this chapter.

Towing precautions

- When heavily loading your vehicle or when towing, your tyres should be inflated to the maximum recommended pressure. Refer to tyre pressure placard and information about tyre pressures ⇨ 143.
- Tighten the tow ball retaining nut to 140 Nm (Newton Meters) and check the torque frequently.
- Vehicles handle differently when towing. It is a good idea to make a couple of short distance trips with the trailer before setting off on a longer journey.
- Have your vehicle correctly maintained and serviced.
- Have the trailer maintained and serviced, with particular attention to the condition of the brakes, tyres, suspension, wheel bearings, lighting and the tow coupling.
- Use extended-arm rear view mirrors on both sides of the vehicle if necessary.
- Headlamps may need realignment after the loaded trailer has been hitched.
- Use a lower gear and the brakes, when descending steep hills.
- Do not use axle-mounted hitches as this will damage the vehicle.
- Ensure that no part of the tow bar (including the tongue or tow ball) obscures the vehicle’s licence plate. If necessary, remove the tow bar tongue when it is not in use.
- If a tow bar is removed: Ensure to have any mounting holes in the underbody properly sealed to prevent the possible entry of exhaust fumes, dust and water.

Trailer brakes

- Trailer brakes are mandatory on trailers weighing 695 kg (1.4L, 1.6L and 1.8L Petrol), 750 kg (2.0L Diesel) and over when loaded. The brakes on the trailer must be designed to cope with the braking requirements of the trailer under all towing conditions, without adversely affecting the brakes on the vehicle.
- Contact the appropriate regulatory body in your State or Territory for the legal requirements of trailer brakes.

Fitting accessories (bull bars, driving lamps, insect screens, etc)

When fitting accessories, take care not to restrict airflow through the air conditioner condenser and the radiator, otherwise engine overheating and/or poor air conditioning performance may result.

The mass of all accessories must be considered when evaluating the vehicle's overall loaded condition.

Remember that bull bars may affect airbag operation.

Running in before towing

Holden recommends that you drive your new vehicle for at least 1,500 km before towing. If you must tow in the first 1,500 km of the vehicle's life, do not exceed 80 km/h.

The same applies if the vehicle is equipped with a new or reconditioned engine, transmission or axle.

Vehicle maintenance

More frequent vehicle maintenance is required when using the vehicle for towing. Refer to the Service/warranty booklet in the vehicle's glovebox.

Vehicle care

General Information 117
Vehicle checks 118
Bulb replacement 128
Electrical system 137
Vehicle tools 142
Wheels and tyres 143
Jump starting 154
Towing 156
Appearance care 157

General Information

Accessories and vehicle modifications

We recommend to use Genuine Parts and Accessories and factory approved parts specific for your vehicle type. We cannot assess or guarantee the suitability or performance of other products, even if they have regulatory or other approval.

Do not make any modifications to the electrical system, e.g. changes of electronic control units (chip tuning).

Vehicle storage

Storage for a long period of time

If the vehicle is to be stored for several months:

- Wash and wax the vehicle.
- Clean and preserve rubber seals.
- Fill up fuel tank completely.
- Change engine oil.
- Drain washer fluid reservoir.
- Check coolant anti-freeze and corrosion protection.
- Adjust tyre pressure to the value specified for full load.
- Park vehicle in dry, well ventilated place. Engage first or reverse gear or set shift lever to **P**. Prevent the vehicle from rolling.
- Do not apply parking brake.
- Open bonnet, close all doors and lock the vehicle.
- Disconnect the clamp from the negative terminal of the vehicle battery. Beware that all systems are not functional, e.g. anti-theft alarm system.

Putting back into operation

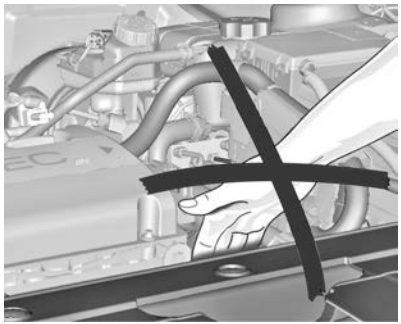
When the vehicle is to be put back into operation:

- Connect the clamp to the negative terminal of the vehicle battery. Activate the electronic of the power windows.
- Check tyre pressure.
- Fill up the washer fluid reservoir.
- Check the engine oil level.

- Check the coolant level.
- Fit the number plate if necessary.

Vehicle checks

Performing work



⚠Warning

Only perform engine compartment checks when the ignition is off.

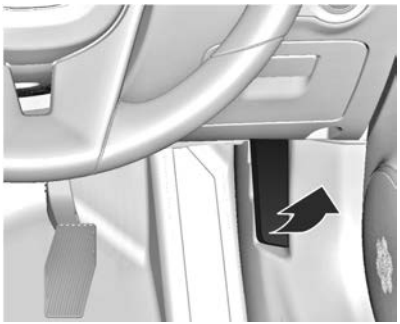
The cooling fan may start operating even if the ignition is off.

⚠Danger

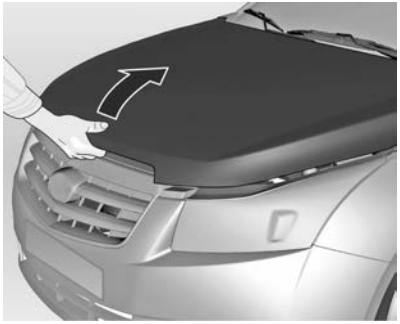
The ignition system uses extremely high voltage. Do not touch.

Bonnet

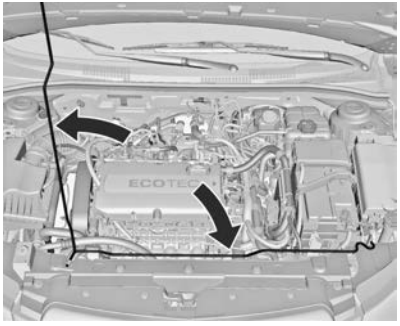
Opening



Pull the release lever and return it to its original position.



Push the safety catch to the right and open the bonnet.



Secure the bonnet support.

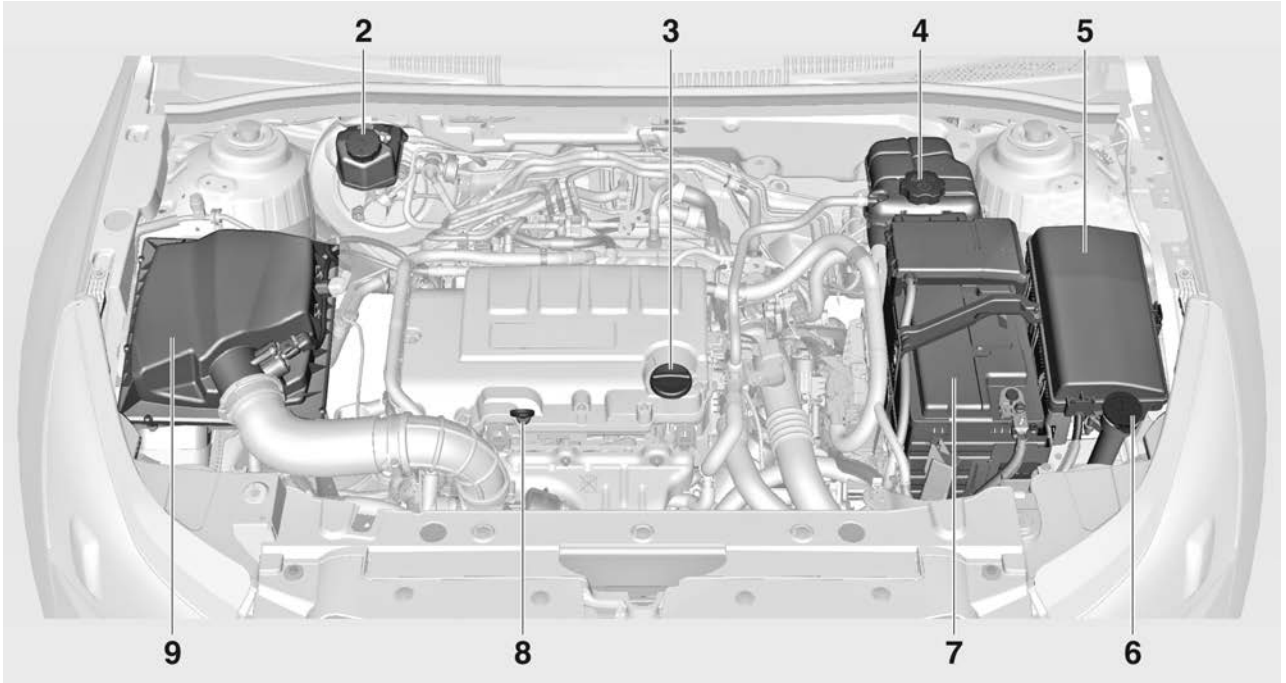
Closing

Before closing the bonnet, press the support into the holder.

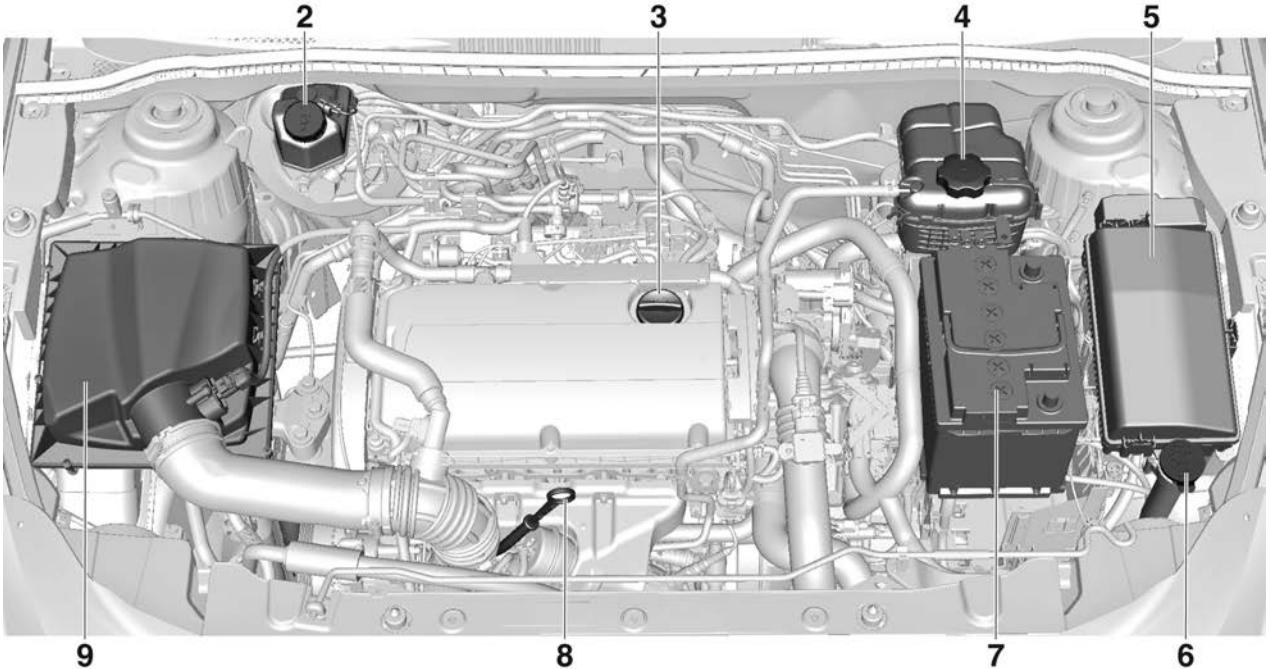
Lower the bonnet and allow it to drop into the catch. Check that the bonnet is engaged.

Engine compartment overview

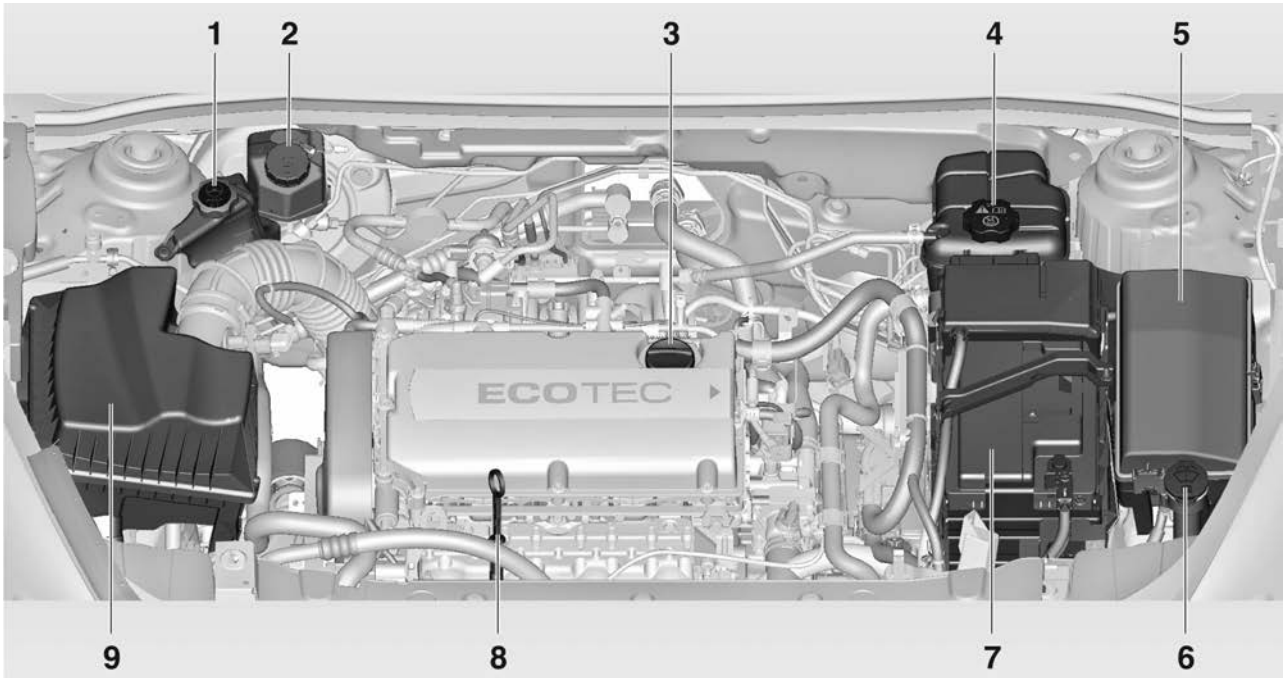
1.4L Petrol engine



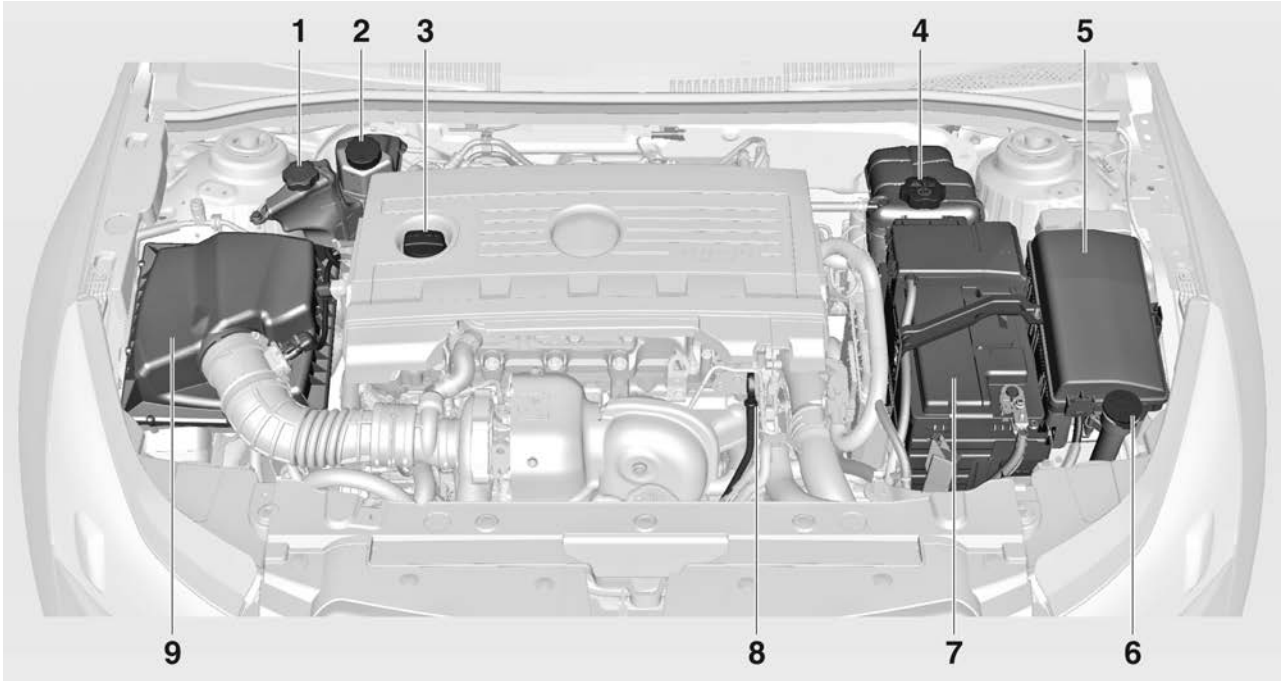
1.6L Petrol engine



1.8L Petrol engine



2.0L Diesel engine



1. Power steering fluid container ⇨ 126
2. Brake fluid container ⇨ 127
3. Engine oil cap ⇨ 124
4. Engine coolant container ⇨ 126
5. Fuse box ⇨ 138
6. Washer fluid container ⇨ 127
7. Battery ⇨ 127
8. Dipstick for engine oil level ⇨ 124
9. Engine air filter ⇨ 125

Engine oil

It is advisable to check the engine oil level manually before embarking on a long journey.

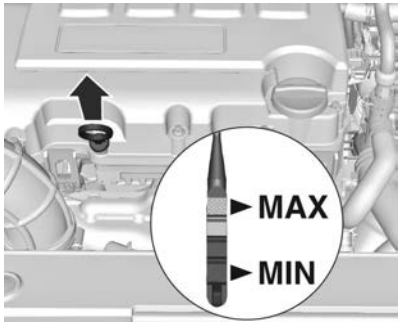
Check with the vehicle on a level surface. The engine must be at operating temperature and switched off for at least 10 minutes.

Pull out the dipstick, wipe it clean, insert it to the stop on the handle, pull out and read the engine oil level.

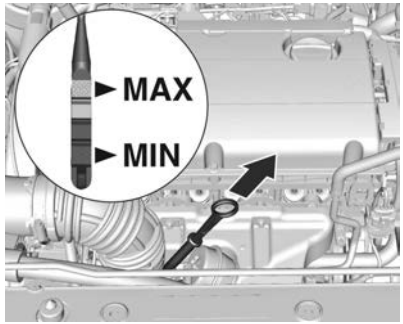
Insert dipstick to the stop on the handle and make half a turn.

Different dipsticks are used depending on engine variant.

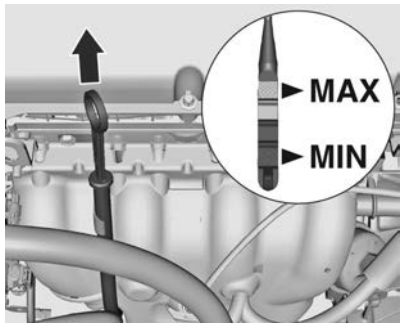
1.4L Petrol:



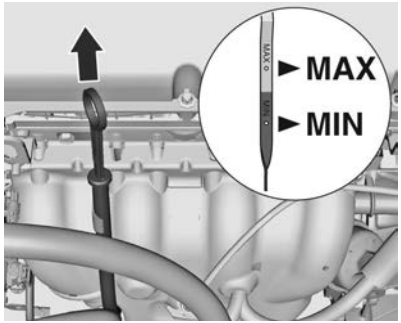
1.6L Petrol:



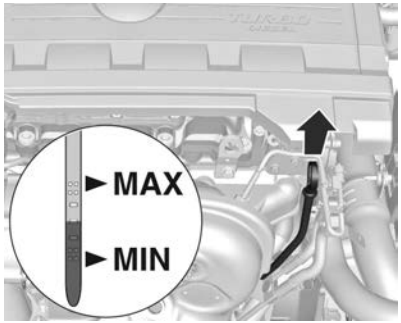
1.8L Petrol (4 Door sedan, 5 Door hatchback):



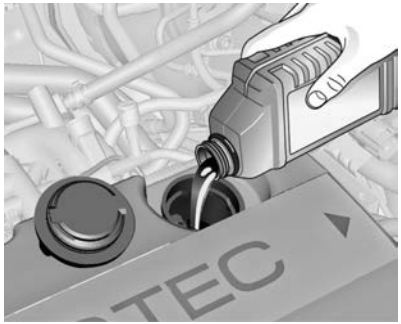
1.8L Petrol (Sportwagon):



2.0L Diesel:



When the engine oil level has dropped to the **MIN** mark, top up engine oil.



Refer to the manufacturers specifications on engine oil ⇨ 161.

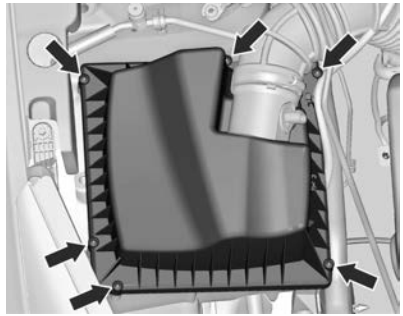
The engine oil level must not exceed the **MAX** mark on the dipstick.

Caution
Overfilled engine oil must be drained or suctioned out.

Replace oil cap and tighten it.

Caution
When driving at a slope, the warning code 79 might be displayed in the Driver Information Centre ⇨ 72. If the code disappears when driving in a flat area again, do not top up engine oil.

Engine air filter



To replace engine air filter unscrew 6 screws and remove air filter housing.

Engine coolant

The coolant provides freeze protection down to approx. -28 °C.

⚠Warning

Do not spill coolant on the vehicle's exterior surfaces. It can damage the paintwork. If you do, wash it off immediately.

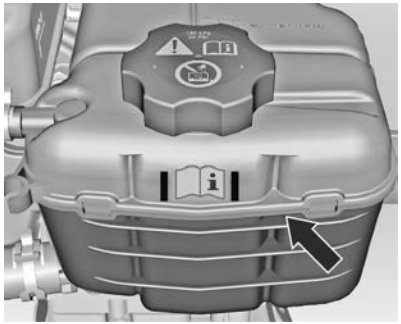
Caution

Only use approved anti-freeze.

Coolant level

Caution

Too low a coolant level can cause engine damage.



If the cooling system is cold, the coolant level should be above the filling line mark. Top up if the level is low.

⚠Warning

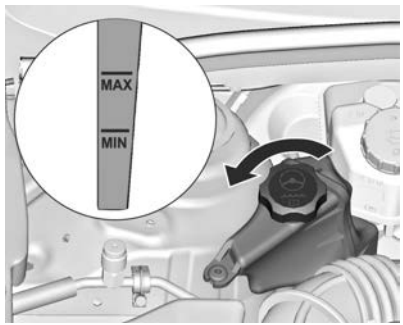
Allow the engine to cool before opening the cap. Carefully open the cap, relieving the pressure slowly.

Top up with antifreeze. If no antifreeze is available, use clean tap water or distilled water. Install the cap tightly. Have the antifreeze concentration checked and have the cause of the coolant loss remedied by your Holden Dealer.

Power steering fluid

Caution

Extremely small amounts of contamination can cause steering system damage and cause it to not work properly. Do not allow contaminates to contact the fluid side of the reservoir cap/dipstick or from entering the reservoir.



Open the cap and remove. Wipe the dipstick dry and turn the cap in the reservoir. Open the cap again and read the power steering fluid level.

The power steering fluid level must be between the **MIN** and the **MAX** marks.

If the fluid level is too low, seek the assistance of your Holden Dealer.

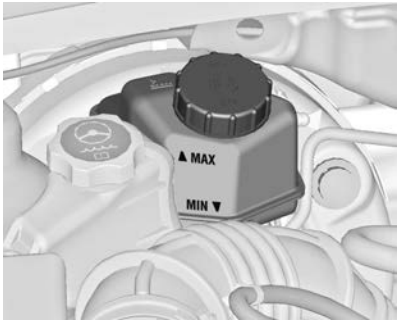
Washer fluid

Fill with clean water mixed with a suitable quantity of windscreen wash solution.

Brake fluid

⚠Warning

Brake fluid is poisonous and corrosive. Avoid contact with eyes, skin, fabrics and painted surfaces.



The brake fluid level must be between the **MIN** and the **MAX** marks.

When topping up, ensure maximum cleanliness as contamination of the brake fluid can lead to brake system malfunctions. Have the cause of the loss of brake fluid remedied by your Holden Dealer.

Only use high-performance brake fluid approved for the vehicle. Brake and clutch fluid ⇨ 161.

Vehicle battery

The vehicle is equipped with a lead acid battery. The battery is maintenance-free.

Caution

A specifically developed battery with a ventilation system is required for this vehicle. Only use a manufacturer recommended battery as a replacement.

Non use of the vehicle for more than 4 weeks can lead to battery discharge. Disconnect the clamp from the negative terminal of the vehicle battery.

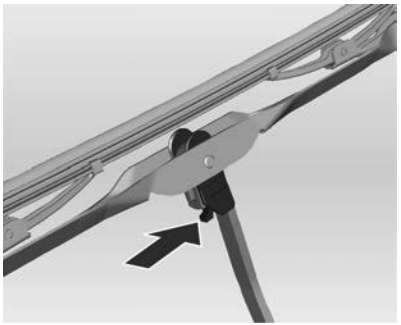
Ensure the ignition is switched off before connecting or disconnecting the vehicle battery.

Battery discharge protection ⇨ 82.

Diesel fuel system bleeding

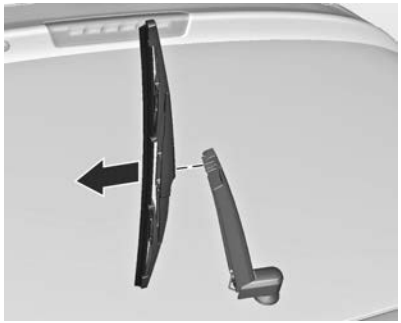
If the tank has been run dry, the diesel fuel system must be bled. Switch on the ignition 3 times for 15 seconds at a time. Then crank the engine for a maximum of 40 seconds. Repeat this process after no less than 5 seconds. If the engine fails to start, seek the assistance of your Holden Dealer.

Wiper blade replacement



Lift wiper arm. Move release lever and detach wiper blade.

Wiper blade on the rear window (Hatch & Sportwagon)



Lift wiper arm. Disengage wiper blade as shown in illustration and remove.

Attach the wiper blade slightly angled to the wiper arm and push until it engages.

Lower wiper arm carefully.

Bulb replacement

Switch off the ignition and switch off the relevant switch or close the doors.

Only hold a new bulb at the base! Do not touch the bulb glass with bare hands.

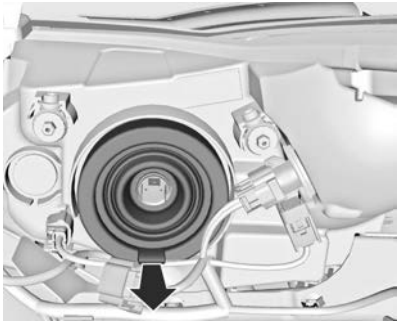
Use only the same bulb type for replacement.

Replace headlight bulbs from within the engine compartment.

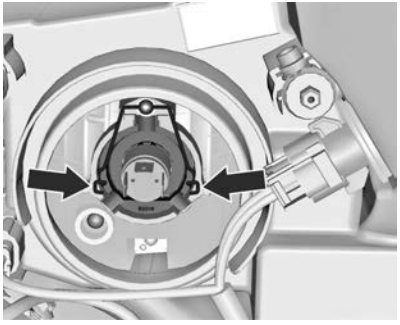
Halogen headlights

Low beam and high beam

1. Detach plug connector from bulb.



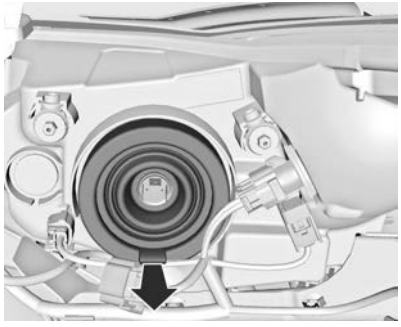
2. Remove protective cover.



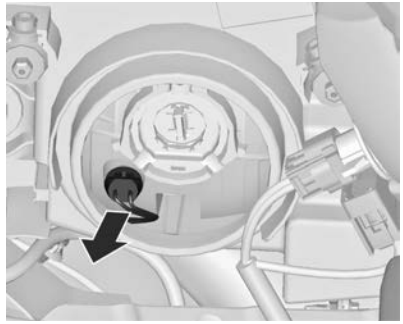
3. Press spring clip, disengage and swivel it upward.
4. Remove bulb from reflector housing.
5. When fitting a new bulb, engage the lugs in the recesses on the reflector.
6. Engage the spring clip.
7. Place headlamp protective cover in position.
8. Plug connector onto bulb.

Parking lights

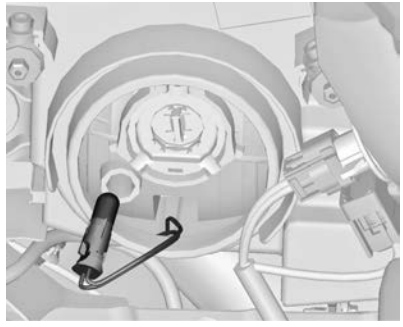
1. Detach plug connector from bulb.



2. Remove protective cover.



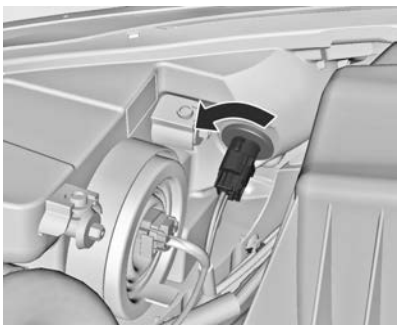
3. Remove side light bulb holder from reflector.



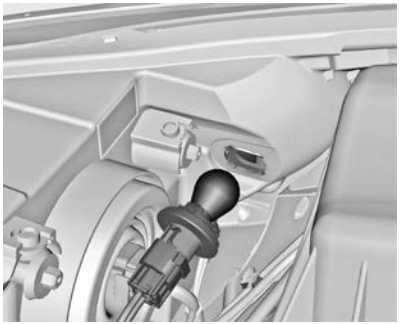
4. Remove bulb from socket.
5. Insert new bulb.

6. Insert holder in reflector.
7. Place headlamp protective cover in position.
8. Plug connector onto bulb.

Front turn signal lights



1. Rotate bulb holder anti-clockwise and disengage.



2. Push bulb into socket slightly, rotate anti-clockwise, remove and renew bulb.
3. Insert bulb holder in reflector, rotate clockwise to engage.

Fog lights

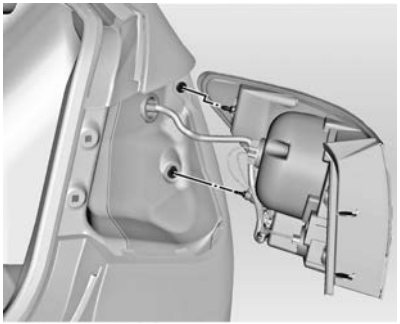
Have bulbs replaced by your Holden Dealer.

Tail lights

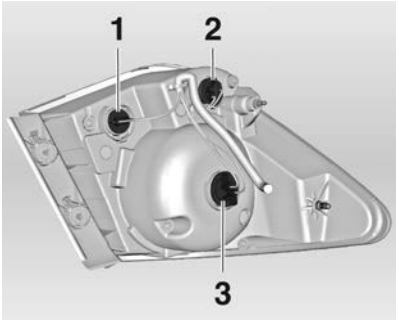
4 Door sedan

1. Open both covers.

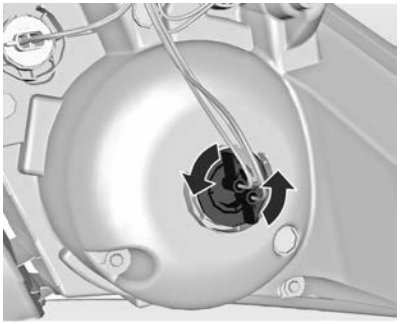
2. Unscrew both screws.



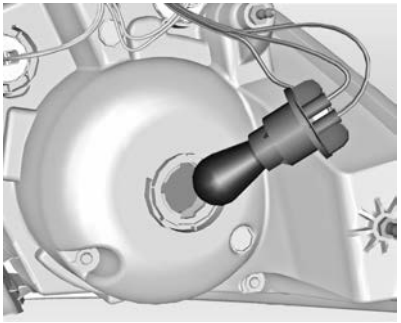
3. Remove tail light assembly. Take care that the cable duct remains in position.



4. Reverse light (**1**)
   Turn signal light (**2**)
   Tail light/brake light (**3**)



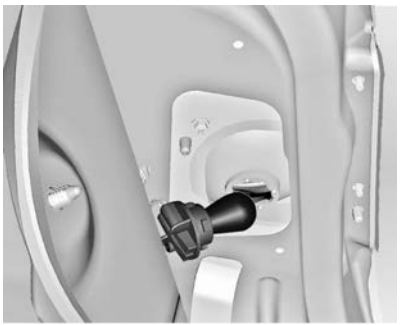
5. Rotate bulb holder anti-clockwise.



6. Remove bulb holder. Push bulb into socket slightly, rotate anti-clockwise, remove and renew bulb.
7. Insert bulb holder into the tail light assembly and rotate clockwise into place. Install tail light assembly in body and tighten screws. Close covers and engage.
8. Switch on ignition, operate and check all lights.

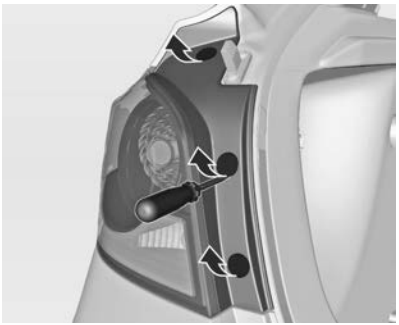
Tail lights in boot lid

1. Remove the boot lid panelling.
2. Rotate bulb holder anti-clockwise.

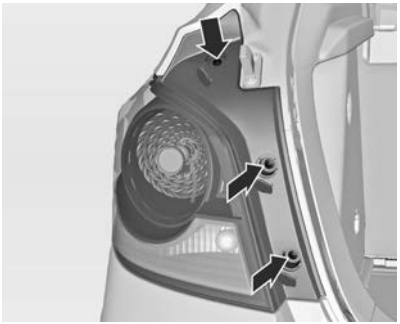


3. Remove bulb holder. Push bulb into socket slightly, rotate anti-clockwise, remove and renew bulb.
4. Insert bulb holder into boot. Refit the inner panelling to boot lid.
5. Switch on ignition, operate and check the lights.

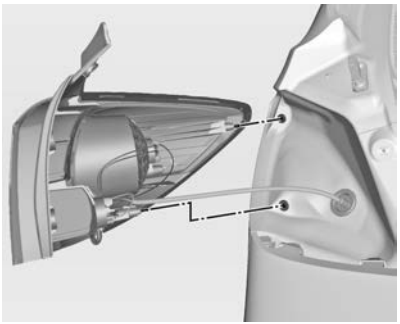
5 Door hatchback



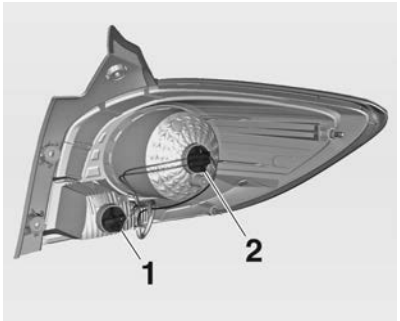
1. Open the three covers.



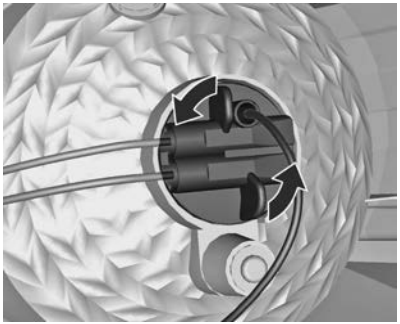
2. Unscrew the three screws.



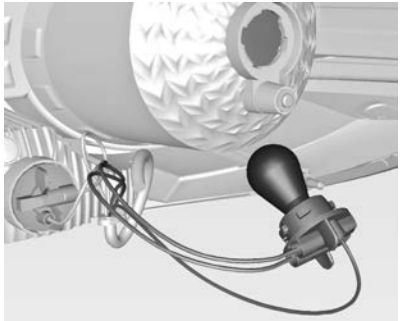
3. Remove tail light assembly. Take care that the cable duct remains in position.



4. Turn signal light (**1**)
   Tail light/brake light (**2**)



5. Rotate bulb holder anti-clockwise.



6. Remove bulb holder. Push bulb into socket slightly, rotate anti-clockwise, remove and renew bulb.
7. Insert bulb holder into the tail light assembly and screw into place. Connect wiring plug. Install tail light assembly in body and tighten screws. Close covers and engage.
8. Switch on ignition, operate and check all lights.

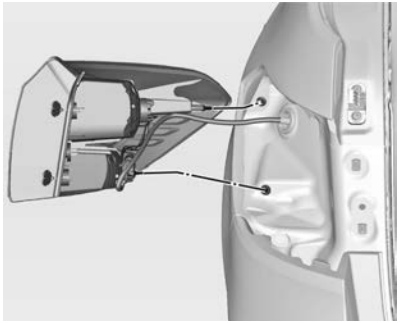
Reverse light

Have bulb replaced by a workshop.

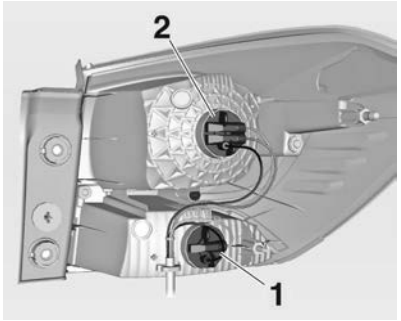
Sportwagon

1. Open both covers.

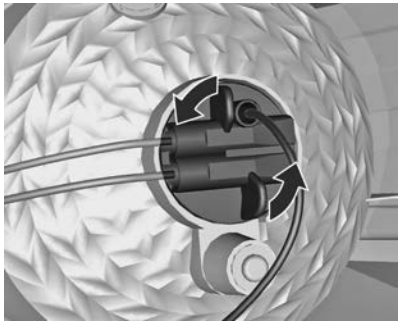
2. Unscrew both screws.



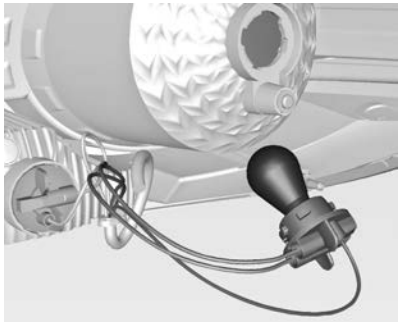
3. Remove tail light assembly. Take care that the cable duct remains in position.



4. Turn signal light (**1**)
   Tail light/brake light (**2**)



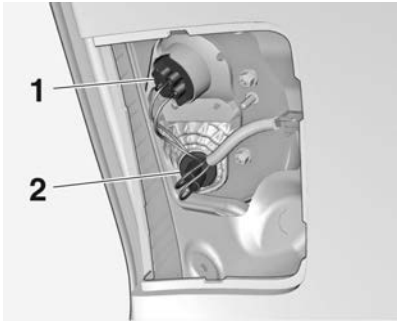
5. Rotate bulb holder anti-clockwise.



6. Remove bulb holder. Push bulb into socket slightly, rotate anti-clockwise, remove and renew bulb.
7. Insert bulb holder into the tail light assembly and screw into place. Install tail light assembly in body and tighten screws. Close covers and engage.
8. Switch on ignition, operate and check all lights.

Tail lights in boot lid

1. Open the tailgate and remove the cover on the respective side.



2. Remove the bulb holder by turning anti-clockwise. Replace the bulb by pulling out of the socket, and then pushing in the replacement bulb.

   Reverse light (**1**).

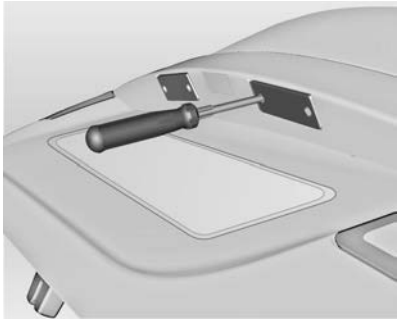
   Tail light (**2**).
3. Insert bulb holder and turn clockwise. Attach cover.
4. Switch on ignition, operate and check the lights.

Side turn signal lights

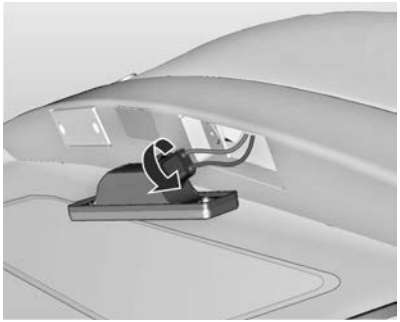
Have bulbs replaced by your Holden Dealer.

Number plate light

4 Door sedan



1. Unscrew both screws.



2. Remove bulb housing downward, taking care not to pull on the cable.

   Rotate bulb holder anti-clockwise to disengage.
3. Remove bulb from holder and renew bulb.
4. Insert bulb holder in bulb housing and rotate clockwise.
5. Insert bulb housing and secure using a screwdriver.

5 Door hatchback, Sportwagon

1. Insert screwdriver in bulb housing, press to the side and release spring.
2. Remove bulb housing downward, taking care not to pull on the cable.

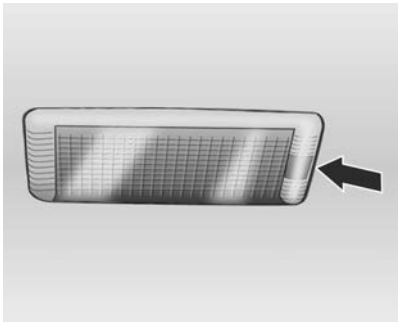
3. Rotate bulb holder anti-clockwise to disengage.
4. Remove bulb from holder and renew bulb.
5. Insert bulb holder in bulb housing and rotate clockwise.
6. Insert and engage bulb housing.

Interior lights

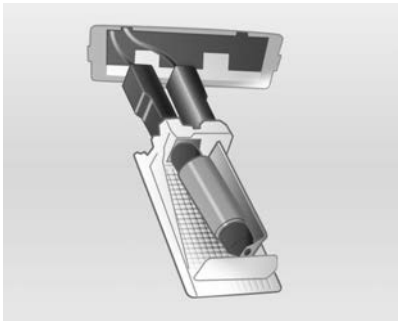
Courtesy light, reading lights

Have bulbs replaced by your Holden Dealer.

Boot compartment light



1. Prise the lamp out with a screwdriver.



2. Press bulb slightly towards spring clip and remove.
3. Insert new bulb.
4. Install lamp.

Instrument panel illumination

Have bulbs replaced by your Holden Dealer.

Electrical system

Fuses

Data on the replacement fuse must match the data on the defective fuse.

There are two fuse boxes in the vehicle:

- in the front left of the engine compartment,
- in the interior behind the glove box.

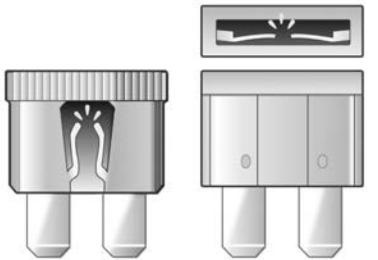
In a box above the positive terminal of the battery are some main fuses. If necessary have them changed by your Holden Dealer.

Before replacing a fuse, turn off the respective switch and the ignition.

A blown fuse can be recognised by its melted wire. Do not replace the fuse until the cause of the fault has been remedied.

Some circuits are protected by several fuses.

Fuses may also be inserted into a blank cavity, where there is no circuit.



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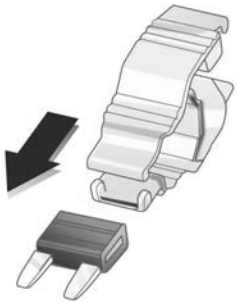
Fuse extractor

A fuse extractor may be located in the fuse box in the engine compartment.



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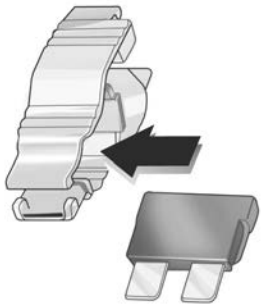

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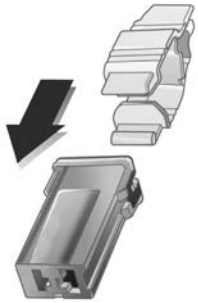

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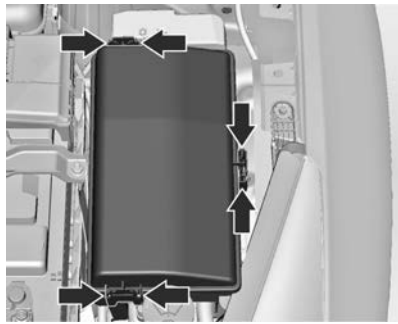
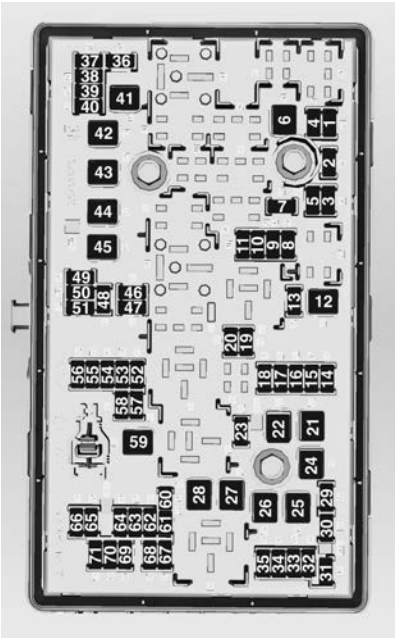
Place the fuse extractor on the various types of fuse from the top or side, and withdraw fuse.

Engine compartment fuse box



The fuse box is in the front left of the engine compartment.

Disengage the cover, lift it upwards and remove.



No.	Circuit
1	Transmission control module
2	Engine control module
3	–
4	Canister vent sol
5	Ignition
6	Front wipers
7	–
8	Fuel injection
9	Fuel injection, ignition system
10	Engine control module
11	Lambda sensor
12	Starter solenoid
13	Canister vent sol
14	–
15	Rear wiper
16	Ignition, Air quality sensor
17	Ignition, Airbag

No.	Circuit
18	Fuel system control module
19	–
20	Fuel pump
21	Rear power windows
22	–
23	–
24	Front power windows
25	Electronic vacuum pump
26	ABS
27	Electronic key system
28	Heated rear window
29	–
30	ABS
31	Body control module
32	Body control module
33	Front seat heating
34	–

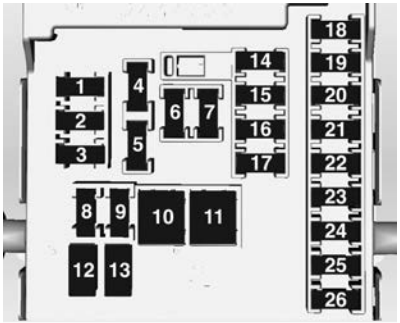
No.	Circuit
35	Infotainment system, Amplifier
36	–
37	High beam, right side
38	High beam, left side
39	–
40	–
41	–
42	Cooling fan
43	–
44	–
45	Cooling fan
46	Cooling fan
47	Lambda sensor
48	Fog lights
49	–
50	–
51	Horn

No.	Circuit
52	Instrument panel
53	Electrochromatic mirror
54	Light switch, Light control
55	Mirror folding
56	Windscreen washer
57	Steering column lock
58	–
59	Diesel fuel heating
60	Mirror heating
61	Mirror heating
62	Air conditioning
63	Rear window sensor
64	Air quality sensor
65	Rear fog lamp
66	Rear washer
67	Fuel system control module
68	–

No.	Circuit
69	Battery voltage sensor
70	Rain sensor
71	–

Instrument panel fuse box

The fuse box is located behind a cover in the glovebox. Open the glovebox and remove the cover.



No.	Circuit
1	Infotainment system, handsfree phone
2	–
3	Body control module
4	Infotainment system
5	Display/faceplate, parking assist, power sounder
6	Cigarette lighter
7	Power outlet
8	Body control module
9	Body control module
10	Body control module
11	Interior fan
12	–
13	Heated seats
14	Diagnostic connector
15	Airbag
16	Central locking system
17	Air conditioning system
18	Trailer wiring power
19	Shift lever
20	–
21	Instruments
22	Ignition, Electronic key system
23	Body control module
24	Body control module
25	Steering column lock
26	Rear power outlet

Vehicle tools

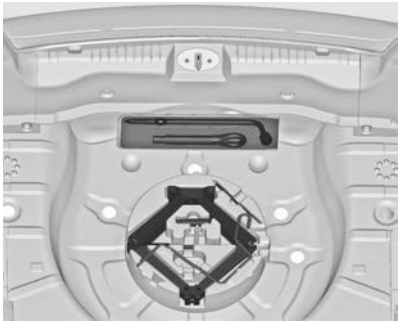
Tools

Vehicles with tyre repair kit

The tools and tyre repair kit are in a storage compartment below the floor cover in the boot.

Vehicles with spare wheel

The jack and the tools are in a stowage compartment in the boot below the spare wheel. Spare wheel ⇨ 152.



A LONG wheel tub stud may also be stored with the vehicle tools.

Wheels and tyres

Tyre condition, wheel condition

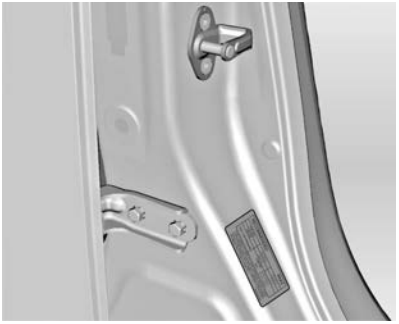
Drive over edges slowly and at right angles if possible. Driving over sharp edges can cause tyre and wheel damage. Do not trap tyres on the kerb when parking.

Regularly check the wheels and tyres for damage. Seek the assistance from your Holden Dealer in the event of damage or unusual tyre wear.

Tyre pressure

Check the pressure of cold tyres at least every 14 days and before any long journey. Do not forget the spare wheel.

Unscrew the valve cap.



Refer to the tyre pressure placard on the front right door frame.

The tyre pressure data refers to cold tyres.

Always inflate the spare tyre to the pressure specified for full load.

Incorrect tyre pressures will impair safety, vehicle handling, comfort and fuel economy and will increase tyre wear.

⚠Warning

If the pressure is too low, this can result in considerable tyre warm-up and internal damage, leading to tread separation and even to tyre blow-out at high speeds.

Tread depth

Check tread depth at regular intervals.

Tyres should be replaced for safety reasons when

1. The tyres are worn to the point where the tread indicators as shown, appear or the cord or fabric is showing.
2. The tread or side wall is cut, split, or cracked deep enough to expose the cord or fabric.
3. The tyre has a bump or bulge in it, indicating some kind of internal damage.
4. The tyre has a puncture, cut or other damage which cannot be repaired because of the size or

location of the damage. If in doubt about the extent of the damage to the tyre, have it removed from the wheel and examined by a tyre specialist.

The legally permissible minimum tread depth (1.6 mm) has been reached when the tread has worn down as far as one of the tread wear indicators (TWI). Their position is indicated by markings on the sidewall.

If there is more wear at the front than the rear, swap round front wheels and rear wheels. Ensure that the direction of rotation of the wheels is the same as before.

Tyres age, even if they are not used. We recommend tyre replacement every 6 years.

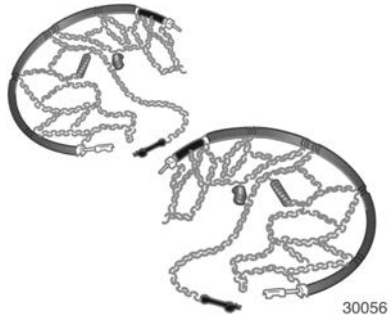
Wheel covers

Wheel covers and tyres that are factory approved for the respective vehicle and comply with all of the relevant wheel and tyre combination requirements must be used.

⚠Warning

Use of unsuitable tyres or wheel covers could lead to sudden pressure loss and thereby accidents.

Tyre chains



Tyre chains are only permitted on the front wheels.

Always use fine mesh chains that add no more than 10 mm to the tyre tread and the inboard sides (including chain lock).

⚠Warning

Damage may lead to tyre blowout.

Tyre repair kit

(If fitted)

Minor damage to the tyre tread or sidewall can be repaired with the tyre repair kit.

Do not remove foreign bodies from the tyres.

Tyre damage exceeding 4 mm or that is at tyre's side wall near the rim cannot be repaired with the tyre repair kit.

⚠Warning

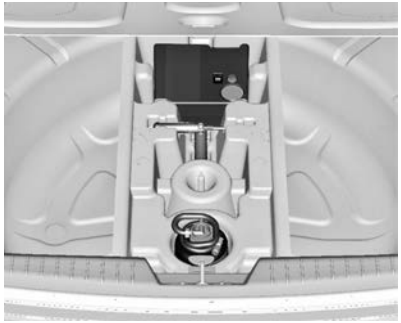
Do not drive faster than 80 km/h.

Do not use for a lengthy period.

Steering and handling may be affected.

If you have a flat tyre:

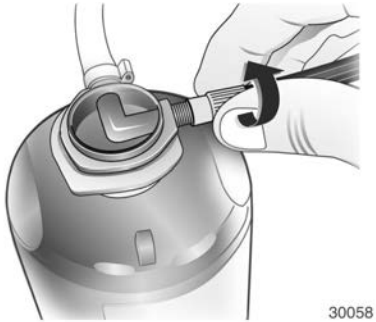
Apply the parking brake and engage first gear, reverse gear or **P**.



The tyre repair kit is in a compartment under the floor cover in the load compartment.

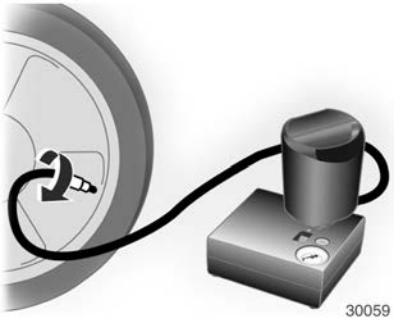
1. Take the tyre repair kit from the compartment.
2. Remove the compressor.

3. Remove the electrical connection cable and air hose from the stowage compartments on the underside of the compressor.



4. Screw the compressor air hose to the connection on the sealant bottle.
5. Fit the sealant bottle into the retainer on the compressor.

   Set the compressor near the tyre in such a way that the sealant bottle is upright.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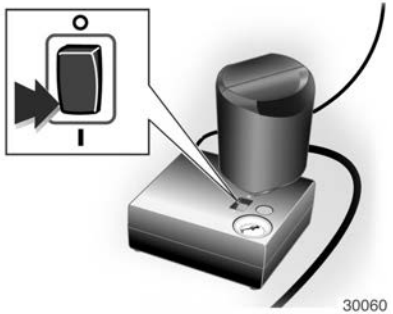
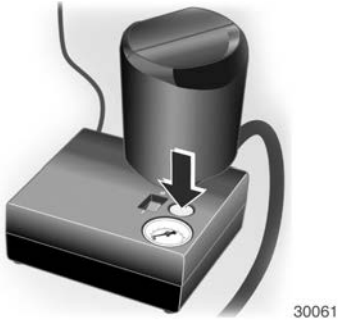
6. Unscrew valve cap from defective tyre.
7. Screw the filler hose to the tyre valve.
8. The switch on the compressor must be set to O.
9. Connect the compressor plug to the accessory socket at the rear of the console.

   To avoid discharging the battery, we recommend running the engine.


30060

10. Set the rocker switch on the compressor to I. The tyre is filled with sealant.
11. The compressor pressure gauge briefly indicates up to 90 PSI/620 kPa whilst the sealant bottle is emptying (approx. 30 seconds). Then the pressure starts to drop.
12. All of the sealant is pumped into the tyre. Then the tyre is inflated.
13. The recommended tyre pressure should be obtained within 10 minutes. Tyre pressure ⇨ 143. When the correct pressure is obtained, switch off the compressor.


30061

If the recommended tyre pressure is not obtained within 10 minutes, remove the tyre repair kit. Move the vehicle one tyre rotation. Reattach the tyre repair kit and continue the filling procedure for 10 minutes.

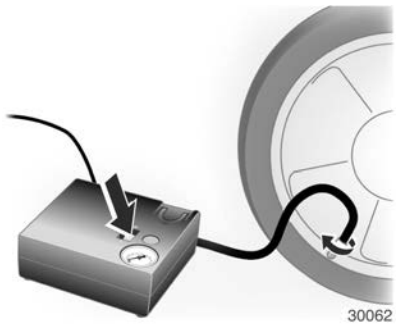
⚠Warning

If the recommended pressure cannot be reached after approximately 15 minutes, the vehicle should not be driven. The tyre is too severly damaged and the tyre sealant and air compressor kit cannot inflate the tyre. Disconnect and stow the tyre sealant and air compressor kit back in its original position. Contact you Holden Dealer.

Drain excess tyre pressure with the button over the pressure indicator.

Do not run the compressor longer than 10 minutes.

14. Detach the tyre repair kit. Push catch on bracket to remove sealant bottle from bracket. Screw tyre inflation hose to free connection of sealant bottle. This prevents sealant from escaping. Stow tyre repair kit in load compartment.
15. Remove any excess sealant using a cloth.
16. Take the label indicating maximum permitted speed from the sealant bottle and affix in the driver's field of view.
17. Continue driving immediately so that sealant is evenly distributed in the tyre. After driving approx. 10 km (but no more than 10 minutes), stop and check tyre pressure. Screw compressor air hose directly onto tyre valve and compressor when doing this.



If tyre pressure is more than 20 PSI/138 kPa, set it to the correct value. Repeat the procedure until there is no more loss of pressure.

If the tyre pressure has fallen below 20 PSI/138 kPa, the vehicle must not be used. Seek the assistance of your Holden Dealer.

18. Stow away tyre repair kit in load compartment.

Note

The driving comfort of the repaired tyre is severely affected, therefore have this tyre replaced.

If unusual noise is heard or the compressor becomes hot, turn compressor off for at least 30 minutes.

The built-in safety valve opens at a pressure of 100 PSI/690 kPa.

Note the expiry date of the kit. After this date its sealing capability is not longer guaranteed. Pay attention to storage information on sealant bottle.

Replace the used sealant bottle. Dispose of the bottle as prescribed by applicable laws.

The compressor and sealant can be used from approx. -30 °C.

The adapters supplied can be used to pump up other items e.g. footballs, air mattresses, inflatable dinghies etc. They are located on the underside of the compressor. To remove, screw on compressor air hose and withdraw adapter.

Wheel changing

Some vehicles are equipped with a tyre repair kit instead of a spare wheel ⇨ 145.

⚠Warning

All passengers must be out of the vehicle when it is being jacked.

Only jack the vehicle on hard, level surfaces.

Ensure moving parts of the jack are adequately lubricated before use.

Use the jack only at the designated lifting points. Use in other locations may result in the vehicle falling off the jack, or damage to the vehicle.

If using a jack (or hoist) other than the jack supplied with the vehicle, refer to the following pages in this chapter for the correct lifting positions.

Do not start or run the engine while the vehicle is supported by the jack.

Use the jack only for lifting the vehicle when changing wheels.

Do not get under a vehicle that is supported by a jack. No person should place any portion of their body under a vehicle that is supported by a jack.

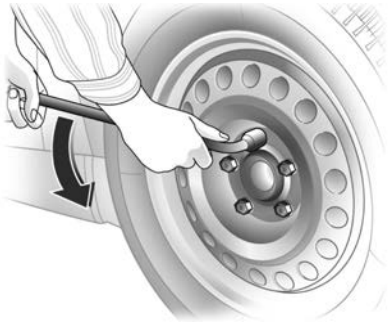
Vehicles with alloy wheels may have a steel spare wheel. Drive carefully and do not exceed 80 km/h when a combination of alloy and steel wheels are fitted on the vehicle. Although the spare tyre was fully inflated when the vehicle was new, it can lose air over time. Check the inflation pressure regularly. After installing the spare wheel on the vehicle, stop as soon as possible to check the inflation pressure is correct. Have the flat tyre repaired or replaced and installed back on the vehicle as soon as possible.

Make the following preparations and observe the following information:

- Park the vehicle on a level, firm and non-skid surface. The front wheels must be in the straight-ahead position.
- Apply the parking brake and engage first gear, reverse gear or **P**.
- Chock the wheel diagonally opposite the flat tyre with a suitable solid object.
- Remove the spare wheel and tools from inside the boot. The tools are located in the storage compartment underneath the spare wheel ⇨ 152.

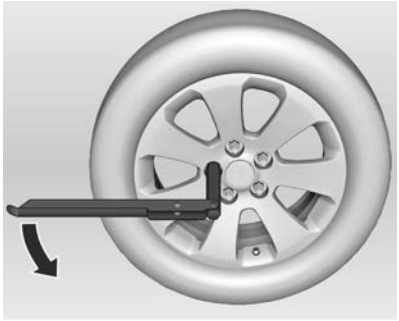
- Never change more than one wheel at once.
- Use the jack only to change wheels in case of puncture.
- If the ground on which the vehicle is standing is soft, a solid board (max. 1 cm thick) should be placed under the jack.
- No people or animals may be in the vehicle when it is jacked-up.
- Never crawl under a jacked-up vehicle.
- Do not start the vehicle when it is raised on the jack.
- Clean wheel nuts and thread before replacing the wheel.

1. Pull off the wheel cover.
2. Variant 1:



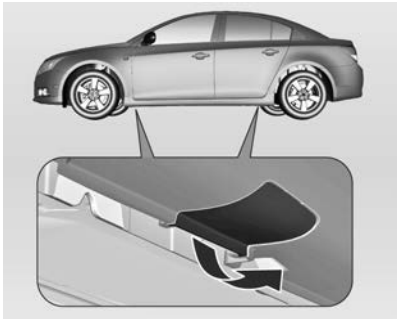
Install the wheel wrench ensuring that it locates securely and loosen each wheel nut by half a turn.

Variant 2:



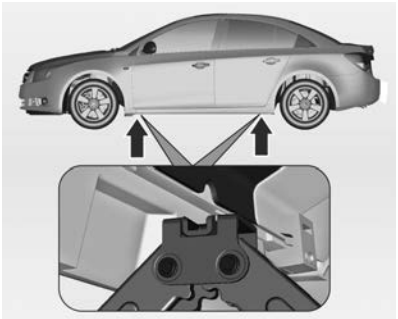
Fold out the wheel wrench and install ensuring that it locates securely and loosen each wheel nut by half a turn.

3. If the sill panel has a cover:

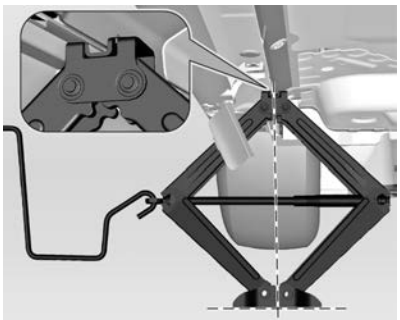


Place hand behind the edge of the cover on the sill panelling.

Pull down and out to remove the cover. The cover is attached by a tether.



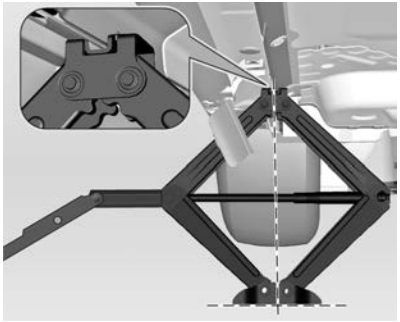
4. Ensure the jack is positioned correctly with the vehicle jacking points.
5. Variant 1:



Set the jack to the necessary height. Position it directly below the jacking point in a manner that prevents it from slipping.

Attach jack handle and with the jack correctly aligned rotate handle until wheel is clear of the ground.

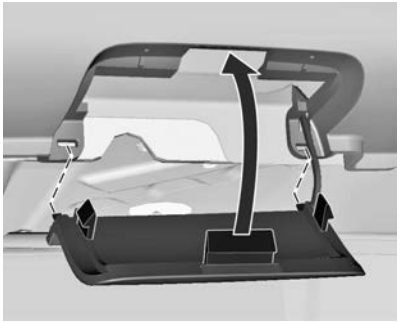
Variant 2:



Set the jack to the necessary height. Position it directly below the jacking point in a manner that prevents it from slipping.

Attach wheel wrench and with the jack correctly aligned rotate wheel wrench until wheel is clear of the ground.

6. Unscrew the wheel nuts.
7. Change the wheel.
8. Screw on the wheel nuts.
9. Lower vehicle.
10. Install the wheel wrench ensuring that it locates securely and tighten each nut in a crosswise sequence.
11. Align the valve hole in the wheel cover with the tyre valve before installing.
12. If the sill panel has a cover:



Reinstall cover.

Insert the two rear pins into the holes at the sill panelling and fold up the cover to engage.

13. Stow the replaced wheel ⇨ 152 and the vehicle tools ⇨ 142.
14. Check the tyre pressure of the installed tyre and also the wheel nut torque as soon as possible.

Have the defective tyre renewed or repaired.

⚠Warning

As soon as possible after changing a wheel, you should have the wheels tightened with a torque of 150 Newton metre and have the wheel balanced on the vehicle. Wheel bolts should be tightened evenly to the correct torque in a crisscross pattern while the vehicle is on the ground. Wheel bolts which have not been tightened properly could eventually allow the wheel to come off while the vehicle is moving.

Spare wheel

(If fitted)

The spare wheel is located in the boot beneath the floor covering. It is secured in the recess with a wing nut.

When replacing a wheel with the spare wheel, follow the appropriate steps to secure the removed wheel in the spare wheel well or boot:

Hatch with 17" alloy wheels and a 16" steel spare wheel

Stow in spare wheel well and secure with the wing nut.

Sedan with 17" or 18" alloy wheels and a 16" steel spare wheel

Stow in spare wheel well and secure with the wing nut.

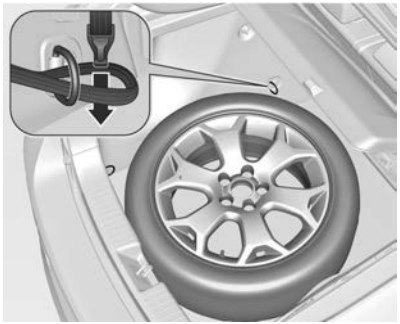
Sportwagon with 16" or 17" alloy wheels and a 16" steel spare wheel

Stow in spare wheel well and secure with the wing nut.

Hatch with 17" or 18" alloy wheels and a space saver spare wheel

The removed wheel must be stowed in the load compartment and secured with a strap. Vehicle tools ⇨ 142.

1. Position the wheel close to one sidewall of the load compartment.



2. Place the loop end of the strap through the front lashing eye on the appropriate side.
3. Place the hook end of the strap through the loop and pull it until the strap is fastened securely to the lashing eye.

4. Insert the strap through the spokes of the wheel as shown in the illustration.
5. Mount the hook to the rear lashing eye.
6. Tighten the strap and secure it using the buckle.

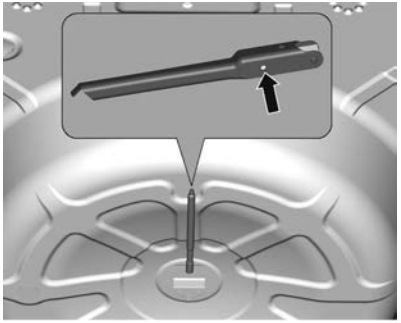
⚠ Danger

Always drive with folded up and engaged rear seat backrests when stowing a damaged full size wheel in the load compartment.

Sedan with 17" or 18" alloy wheels and a space saver spare wheel

The removed wheel must be stowed in the spare wheel well and secured with the wing nut and LONG wheel tub stud. Vehicle tools ⇨ 142.

1. Loosen and remove the SHORT wheel tub stud using the socket located in the side of the wheel nut wrench.



2. Install the LONG wheel tub stud and tighten using the socket located in the side of the wheel nut wrench.

3. Remove the plastic spacer from the jack package and stow safely.
4. Install the jack package over the LONG wheel tub stud.
5. Install the removed alloy wheel over the LONG wheel tub stud.
6. Secure the removed alloy wheel using the wing nut.

Note that when stowing the space saver wheel, it is necessary to refit the SHORT wheel tub stud.

Temporary spare wheel

Caution

The use of a spare wheel that is smaller than the other wheels could affect driveability. Have the defective tyre replaced as soon as possible.

Only mount one temporary spare wheel. Do not drive faster than 80 km/h. Take curves slowly. Do not use for a long period of time.

Directional tyres

Fit directional tyres such that they roll in the direction of travel. The rolling direction is indicated by a symbol (e.g. an arrow) on the sidewall.

The following applies to tyres fitted opposing the rolling direction:

- Driveability may be affected. Have the defective tyre renewed or repaired as soon as possible.
- Do not drive faster than 80 km/h.
- Drive particularly carefully on wet and snow-covered road surfaces.

Jump starting

Do not start with quick charger.

A vehicle with a discharged battery can be started using jump leads and the battery of another vehicle.

⚠Warning

Be extremely careful when starting with jump leads. Any deviation from the following instructions can lead to injuries or damage caused by battery explosion or damage to the electrical systems of both vehicles.

⚠Warning

Avoid contact with eyes, skin, fabrics and painted surfaces. The fluid contains sulphuric acid which can cause injuries and damage in the event of direct contact.

⚠ Warning

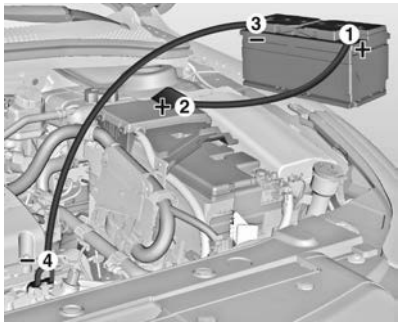
Never expose the battery to naked flames or sparks.

Wear eye protection and protective clothing when handling a battery.

Do not lean over the battery during jump starting.

Do not allow the terminals of one lead to touch those of the other lead.

- A discharged battery can already freeze at temperatures of 0 °C. Defrost the frozen battery before connecting jump leads.
- Use a booster battery with the same voltage (12 volts). Its capacity (Ah) must not be much less than that of the discharged battery.
- Use jump leads with insulated terminals and a cross section of at least 16 mm^2 (25 mm^2 for diesel engines).
- Do not disconnect the discharged battery from the vehicle.
- Switch off all unnecessary electrical consumers.
- The vehicles must not come into contact with each other during the jump starting process.
- Apply the parking brake, transmission in neutral, automatic transmission in **P**.
- Open the positive terminal protection caps of both batteries.



Lead connection order:

1. Connect the red lead to the positive terminal of the booster battery.
2. Connect the other end of the red lead to the positive terminal of the discharged battery.
3. Connect the black lead to the negative terminal of the booster battery.
4. Connect the other end of the black lead to a vehicle grounding point, such as the engine block or an engine mounting bolt. Connect as far away from the discharged battery as possible.

Route the leads so that they cannot catch on rotating parts in the engine compartment.

To start the engine:

1. Start the engine of the vehicle providing the jump.
2. After 5 minutes, start the other engine. Start attempts should be made for no longer than 15 seconds at intervals of 1 minute.

3. Allow both engines to idle for approx. 3 minutes with the leads connected.
4. Switch on electrical consumers (e.g. headlights, heated rear window) of the vehicle receiving the jump start.
5. Reverse above sequence exactly when removing leads.

Towing

Towing the vehicle

Disengage cap at bottom of front fascia by pushing in at bottom right corner.

The towing eye is stowed with the vehicle tools ⇨ 142.

Screw in the towing eye as far as it will go until it stops in a horizontal position.

Attach a tow rope to the towing eye.

The towing eye must only be used for towing and not for recovering the vehicle.

Switch on ignition to release steering column lock and to permit operation of brake lights, horn and windscreen wipers.

Transmission in neutral.

Caution
Drive slowly. Excessive force can damage the vehicle.

When the engine is not running, considerably more force is needed to brake and steer.

To prevent the entry of exhaust fumes from the towing vehicle, switch on the air recirculation and close the windows.

Vehicles with automatic transmission: The vehicle must be towed facing forwards, not faster than 80 km/h nor further than 100 km. In all other cases and when the transmission is defective, the front axle must be raised off the ground.

Seek the assistance of your Holden Dealer.

After towing, unscrew the towing eye and replace cap.

The best method is to have the vehicle transported using a recovery vehicle.

Appearance care

Exterior care

Washing

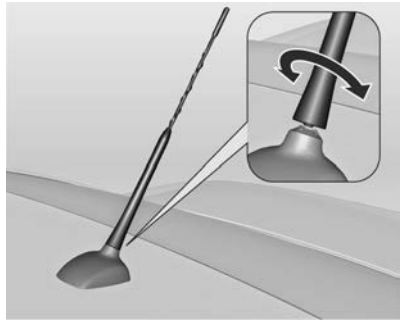
The paintwork of your vehicle is exposed to environmental influences. Wash and wax your vehicle regularly. When using automatic vehicle washes, select a programme that includes waxing.

Bird droppings, dead insects, resin, pollen and the like should be cleaned off immediately, as they contain aggressive constituents which can cause paint damage. Failure to do so may result in permanent damage, particularly in hot weather conditions.

Road bloom is a gradual build up of road and environmental grime. This should be removed with a paint cleaner product, in addition to normal washing, on an annual basis.

If using a vehicle wash, comply with the vehicle wash manufacturer's instructions. Never use an automatic wash that requires anything touching the paint (other than water).The windscreen wipers and rear window wiper must be switched off.

Remove antenna and external accessories such as roof racks etc.



To remove the roof antenna, rotate it anti-clockwise. To install the roof antenna, rotate it clockwise.

If you wash your vehicle by hand, make sure that the insides of the wheel housings are also thoroughly rinsed out.

Clean edges and folds on opened doors and the bonnet, as well as the areas they cover.

Caution

Always use a cleaning agent with a pH value of 4 to 9.

Do not use cleaning agents on hot surfaces.

Have the door hinges of all doors greased by your Holden Dealer.

⚠Warning

Do not clean the engine compartment with a steam-jet or high-pressure jet cleaner.

Thoroughly rinse and chamois off the vehicle. Rinse chamois frequently. Use a separate chamois for painted and glass surfaces: remnants of wax on the windows will impair vision.

Do not use hard objects to remove spots of tar. Use tar removal spray on painted surfaces.

Exterior lights

Headlight and other light covers are made of plastic. Do not use any abrasive, solvent based cleaners or caustic agents and do not clean them dry.

Polishing and waxing

Wax the vehicle regularly (at the latest when water no longer beads).

Polishing is necessary only if the paint has become dull or if solid deposits have become attached to it.

Paintwork polish with silicone forms a protective film, making waxing unnecessary.

Plastic body parts must not be treated with wax or polishing agents.

Windows and windscreen wiper blades

Use a soft lint-free cloth or chamois leather together with window cleaner and insect remover.

When cleaning the rear window from inside, always wipe in parallel to the heating element to prevent damage.

Clean smearing wiper blades with a soft cloth and window cleaner.

Wheels and tyres

Do not use high-pressure jet cleaners.

Clean rims with a pH-neutral wheel cleaner.

Rims are painted and can be treated with the same agents as the body.

Paintwork damage

Rectify minor paintwork damage with a touch-up pen before rust forms. Have more extensive damage or rust areas repaired by your Holden Dealer.

Underbody

Some areas of the vehicle underbody have a PVC undercoating while other critical areas have a durable protective wax coating.

After the underbody is washed, check the underbody and have it waxed if necessary.

Bitumen/rubber materials could damage the PVC coating. Have underbody work carried out by your Holden Dealer.

Interior care

Interior and upholstery

Only clean the vehicle interior, including the instrument panel fascia and panelling, with a dry cloth or interior cleaner.

The instrument cluster and the displays should only be cleaned using a soft damp cloth. If necessary use a weak soap solution.

Clean fabric upholstery with a vacuum cleaner and brush. Remove stains with an upholstery cleaner.

Clothing fabrics may not be colourfast. This could cause visible discolourations, especially on light-coloured upholstery. Removable stains and discolourations should be cleaned as soon as possible.

Clean seat belts with lukewarm water or interior cleaner.

Caution

Close Velcro fasteners as open Velcro fasteners on clothing could damage seat upholstery.

Leather

Clean regularly using a leather revitaliser or mild detergent.

- Apply revitaliser using a lint free cloth and rub it onto the leather.
- Do not saturate the leather with the cleaner and do not pour on directly.
- Allow to dry naturally.
- For deeply embedded soil and dirt, use a leather cleaner.
- After using a leather cleaner/ revitaliser, apply a leather protector.

  A leather protector is designed to repel dirt and provides water resistance.

Note

- Clean and protect leather at least twice a year.
- Do not use synthetic cloths or brushes.
- Leather is a natural product and may have natural markings, variation in graining, colouring and wrinkling.
- Leather has an elasticity and may stretch. This is a natural characteristic of leather.

Plastic and rubber parts

Plastic and rubber parts can be cleaned with the same cleaner as used to clean the body of the vehicle. Use interior cleaner if necessary. Do not use any other agent. Avoid solvents and petrol in particular. Do not use high-pressure jet cleaners.

Service and maintenance

General information 160
Recommended fluids, lubricants and parts 161

General information

Service information

In order to ensure economical and safe vehicle operation and to maintain the value of your vehicle, it is of vital importance that all maintenance work is carried out at the proper intervals as specified.

See your Service booklet for the service schedules and for more information.

Engine oil life system (Diesel engine only)

This vehicle has a computer system that lets you know when to change the engine oil and filter. How frequently you have to change the oil depends on your driving patterns, engine RPM and engine temperature. When the system has calculated that oil life has been diminished, it will indicate that an oil change is necessary by displaying a vehicle message **CodE 82** or **Change Engine Oil Soon** in the Driver Information Centre (DIC) ⇨ 72.

When the change engine oil soon message displays in the DIC, have the engine oil and filter changed as soon as possible within the next 1,000 km. It is possible that, if you are driving under the best conditions, the oil life system may not indicate that an oil change is necessary for a longer period than that shown in the service schedule. However, the engine oil and filter must be changed in accordance with the service schedules outlined in your Service booklet.

Recommended fluids, lubricants and parts

Recommended fluids and lubricants

Only use products that meet the recommended specifications. Damage resulting from the use of products not in line with these specifiations will not be covered by the warranty.

⚠Warning

Operating materials are hazardous and could be poisonous. Handle with care. Pay attention to information given on the containers.

Engine oil

Engine oil is identified by its quality and its viscosity. Quality is more important than viscosity when selecting which engine oil to use. The oil quality ensures e.g. engine cleanliness, wear protection and oil aging control, whereas viscosity grade gives information on the oil's thickness over a temperature range.

Engine oil quality

dexos 1 = 1.6L Petrol engine, 1.8L Petrol engine

dexos 2 = 1.4L Petrol engine, 2.0L Diesel engine

Selecting the right engine oil

Selecting the right engine oil depends on the proper oil specification and viscosity grade.

Use and ask for engine oils with the dexos certification mark. Oils meeting the requirements of your vehicle should have the dexos certification mark on the container. This certification mark indicates that the oil has been approved to the dexos specification.

Your vehicle was filled at the factory with dexos approved engine oil.

Use only engine oil that is approved to the dexos specification or an equivalent engine oil of the appropriate viscosity grade.

If you are unsure whether your oil is approved to the dexos specification, ask your service provider.

Use of substitute engine oils if dexos is unavailable: In the event that dexos approved engine oil is not available at an oil change or for maintaining proper oil level, you may use substitute engine oil of the qualities mentioned above. Use of oils that do not meet the dexos specification, however, may result in reduced performance or engine damage under certain circumstances.

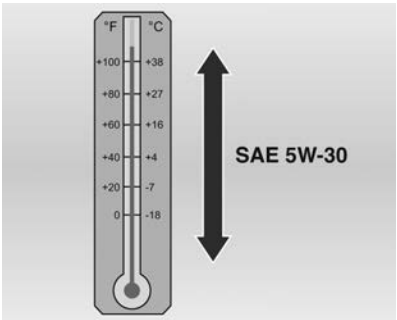
Topping up engine oil

Engine oils of different manufacturers and brands can be mixed as long as they comply with the required engine oil (quality and viscosity).

Engine oil additives

The use of engine oil additives could cause damage and invalidate the warranty.

Engine oil viscosity grades



SAE 5W-30 is the best viscosity grade for your vehicle. Do not use other viscosity grade oils such as SAE 10W-30, 10W-40 or 20W-50.

For acceptable alternative viscosity grade oils ⇨ 168.

When selecting an oil of the appropriate viscosity grade be sure to always select an oil that meets the dexos specification.

The SAE viscosity grade gives information of the thickness of the oil. Multigrade oil is indicated by two figures.

The first figure, followed by a W, indicates the low temperature viscosity and the second figure the high temperature viscosity.

Coolant and antifreeze

Use only silicate-free long life coolant (LLC) antifreeze.

The system is factory filled with coolant designed for excellent corrosion protection and frost protection down to approx. -38 °C. This concentration should be maintained all year round. The use of additional coolant additives that intend to give additional corrosion protection or seal against minor leaks can cause function problems. Liability for consequences resulting from the use of additional coolant additives will be rejected.

Brake and clutch fluid

Only use DOT4 brake fluid.

Over time, brake fluid absorbs moisture which will reduce braking effectiveness. The brake fluid should therefore be replaced at the specified interval.

Brake fluid should be stored in a sealed container to avoid water absorption.

Ensure brake fluid does not become contaminated.

⚠Warning

Using brake fluid other than GM recommended brake fluid may cause corrosion to components of the braking system and reduced braking performance.

Use only new brake fluid. Use of old, used or inferior brake fluid may endanger the functioning of the brake system.

Power steering fluid

Only use Dexron VI fluid.

Automatic transmission fluid

Only use Dexron VI fluid.

Technical data

Vehicle identification 164
Vehicle data 168

Vehicle identification

Vehicle Identification Number

The Vehicle Identification Number is visible through the windscreen.

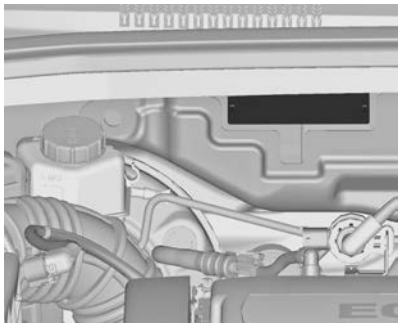
A further label is located in the vehicle floor on the right-hand side under a cover between the front door and seat.

Identification plate

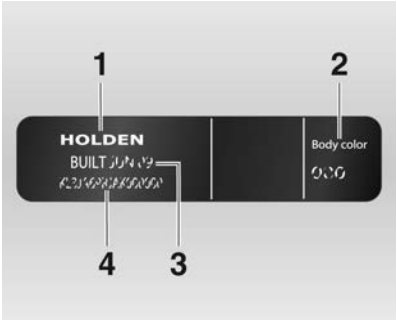
An identification label is located on the front left door frame.

Information on identification label:

1 = Approval number
2 = Manufacturer
3 = Category
4 = Number of seats
5 = Vehicle identification number
6 = Compliance date



A further identification plate is located under the bonnet on the dash panel.

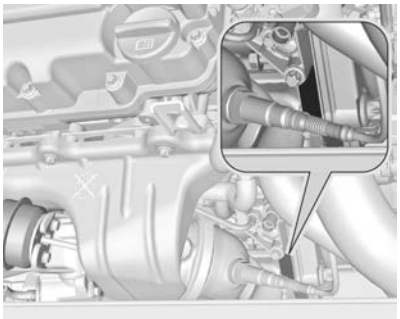


Information on identification plate:

1 = Manufacturer
2 = Body color
3 = Build date
4 = Vehicle identification number

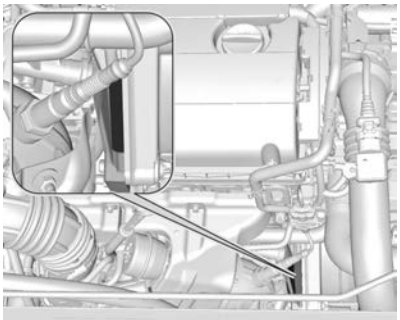
Engine serial number

1.4L Petrol engine



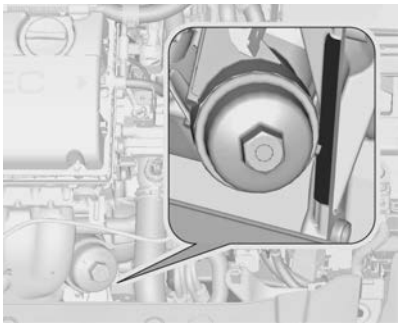
The engine serial number is located in the front part of the engine compartment.

1.6L Petrol engine



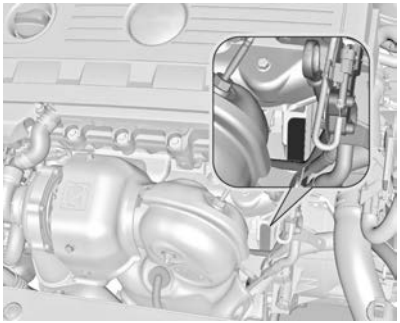
The engine serial number is located in the front part of the engine compartment.

1.8L Petrol engine



The engine serial number is located next to the oil filter.

2.0L Diesel engine



The engine serial number is located under the centre branch of the exhaust manifold.

Vehicle data
Recommended fluids and lubricants

Manufacturer's specifications

Engine oil specification

	Engine oil specification	Best viscosity grade for the vehicle	Alternative viscosity
1.4L Petrol	dexos 2	5W-30	0W-30
1.6L Petrol	dexos 1	5W-30	0W-30
1.8L Petrol	dexos 1	5W-30	0W-30
2.0L Diesel	dexos 2	5W-30	0W-30 or 5W-40

Fluids/Lubricants

Usage	Fluid/Lubricant
Coolant specification	50% clean water and 50% Dexcool anti-freeze coolant, conforming to specification number GM6277M
Brake & clutch fluid	DOT 4 Hydraulic brake fluid, conforming to specification number GMW 3356
Power steering fluid	Dexron - VI Auto trans fluid
Automatic transmission fluid	Dexron - VI Auto trans fluid

Usage	Fluid/Lubricant
Manual transmission fluid	1.6L Petrol: GM Part Number 93165694 (BOT303, Low Viscosity 70W)
	1.8L Petrol: SAE 75W-90

Engine data

Engine	1.4L Petrol	1.6L Petrol	1.8L Petrol	2.0L Diesel
Number of cylinders	4	4	4	4
Piston displacement [cm^3]	1364	1598	1796	1998
Engine power [kW] at rpm	Refer to holden.com.au			
Torque [Nm] at rpm	Refer to holden.com.au			
Fuel type	Petrol	Petrol	Petrol	Diesel
Octane rating RON				
Minimum	91	91	91	–
Recommended	**91**	**95**	**91**	–

Vehicle weight

Additional weight

Maximum vehicle payloads

Vehicle	Occupants (Average 68 kg each)	Luggage (kg)	Total Load (kg)
4 Door sedan	5	68	408
5 Door hatchback	5	68	408
Sportwagon	5	68	408

Maximum front and rear axle loads

Vehicle	Front axle loads (kg)	Rear axle loads (kg)
1.4L Petrol	1060	1000
1.6L Petrol	1160	1000
1.8L Petrol	1060	1000
2.0L Diesel	1160	1000

Vehicle dimensions

4 Door sedan

	EQUIPE/CDX	SRi/SRi-V
Length [mm]	4615	4629
Width without exterior mirrors [mm]	1797	1797
Height (without antenna) [mm]	1477	1477
Wheelbase [mm]	2685	2685

5 Door hatchback

	EQUIPE/CDX	SRi/SRi-V
Length [mm]	4519	4543
Width without exterior mirrors [mm]	1797	1797
Height (without antenna) [mm]	1477	1477
Wheelbase [mm]	2685	2685

Sportwagon

	CD/CDX
Length [mm]	4675
Width without exterior mirrors [mm]	1797
Height (without antenna) [mm]	1521
Wheelbase [mm]	2685

Capacities

Engine oil

Engine	1.4L Petrol	1.6L Petrol	1.8L Petrol	2.0L Diesel
including Filter [l]	4.0	4.5	4.5	5.4

Engine coolant

Engine	1.4L Petrol	1.6L Petrol	1.8L Petrol	2.0L Diesel
capacity [l]	7.1	6.5	6.5	7.5

Fuel tank

Petrol/diesel, nominal capacity [l]	60

Tyre pressures

4 Door sedan, 5 Door hatchback

Tyre size Wheel size and profile	Recommended pressure													
	Normal load				Eco normal load				Maximum load				Spare	
	Front		Rear		Front		Rear		Front		Rear		–	
	kPa	PSI	kPa	PSI	kPa	PSI	kPa	PSI	kPa	PSI	kPa	PSI	kPa	PSI
215/50 R17 91V 17 x 7.0, J	250	36	250	36	270	39	270	39	270	39	300	44	–	–
225/50 R17 94V 17 x 7.0 , J	250	36	250	36	270	39	270	39	270	39	300	44	–	–
235/45 R18 94 V 18 x 8.0 , J	250	36	250	36	270	39	270	39	270	39	270	39	–	–
205/60 R16 98N 16 x 6.5 , J	–	–	–	–	–	–	–	–	–	–	–	–	300	44
T115/70 R16 92M 16 x 4.0 , J	–	–	–	–	–	–	–	–	–	–	–	–	420	61

Sportwagon

Tyre size Wheel size and profile	Recommended pressure													
	Normal load				Eco normal load				Maximum load				Spare	
	Front		Rear		Front		Rear		Front		Rear		–	
	kPa	PSI	kPa	PSI	kPa	PSI	kPa	PSI	kPa	PSI	kPa	PSI	kPa	PSI
205/60 R16 92V 16 x 6.5 , J	250	36	250	36	270	39	270	39	270	39	300	44	–	–
215/50 R17 91V 17 x 7.0 , J	250	36	250	36	270	39	270	39	270	39	300	44	–	–
225/50 R17 94V 17 x 7.0 , J	250	36	250	36	270	39	270	39	270	39	300	44	–	–
205/60 R16 98N 16 x 6.5 , J	–	–	–	–	–	–	–	–	–	–	–	–	300	44

Customer information

Owner Assistance..... 176

Customer Information

Owner Assistance

Holden Customer Care

At Holden, we want you to be completely satisfied with your ownership experience. This applies to your vehicle and any Holden representative you may deal with.

Refer below for two options for seeking assistance with your query.

Holden Dealerships

Holden encourages you to seek assistance from your Holden Dealership. Each Holden Dealership is equipped to manage any sales, servicing, parts or technical query.

In the instance that you wish to escalate a query to a higher level of staff, further options are available to you.

As a first step, Holden suggests you discuss any concern with the relevant Department Manager (Sales Manager or Service Manager).

Alternatively, the Dealership General Manager or Dealer Principal will also be happy to assist you.

Holden Customer Care Office

Should you wish to speak to a Holden representative, you are welcome to contact the Holden Customer Care team.

Refer below for operating hours and various methods of communication.

Operating Hours

Weekdays: 8am – 7pm AEST
Saturday: 9am – 1pm AEST

Telephone

Holden Customer Care can be telephoned from anywhere within Australia for only the cost of a local call.

The contact number is:
1800 033 349

Email

Alternatively, you may prefer to email Holden at:
holdencustomercare@gm.com

Written Correspondence

You can also write to Holden at the address below:

The Manager
Holden Customer Care Centre
GPO Box 1714
Melbourne 3001

Your written correspondence should clearly outline your concern or query and include:

- Your name and address
- Telephone numbers, both private and business
- Servicing dealer's name and address
- Vehicle model
- Vehicle identification number (I.S.O.V.I.N.), refer to the inside front cover of the Service/ Warranty Booklet in your vehicle's glove box
- Date of purchase
- Current odometer reading

Most of this information will be found on the Vehicle Identification Certificate, located inside the front cover of the Service/Warranty Booklet in your vehicle's glove box.

Before you write however, remember that the telephone is the quicker and more efficient means of communication.

New Zealand

The information in this Owner's Handbook applies primarily to Australian Holden vehicles and there may be some differences to the Warranty and Owner Assistance provisions for New Zealand.

Applicable details for New Zealand are set out in the Holden Warranty and Owner Assistance Information booklet enclosed in the New Zealand glove box wallet.

New Zealand Assistance can be reached on:

0800 HOLDEN (**0800 465 336**)

This number provides access to New Zealand Roadside Assistance as well as New Zealand Customer Care.

Alternatively, you may prefer to email Holden at:

holdencustomercare@gm.com

You can also write to Holden at the address below:

The Manager
Holden Customer Care Centre
P.O. Box 11195
Ellerslie
Auckland 1542
New Zealand

Index

A

Accessories and vehicle modifications 117
Adjustable air vents 89
Airbag and belt tensioners 66
Airbag system 40
Air conditioning regular operation 90
Air conditioning system 83
Air intake 90
Antilock brake system 101
Antilock brake system (ABS) 67
Anti-theft alarm system 27
Apply footbrake 70
Armrest..... 36, 37
Armrest storage 50
Automatic light control 78
Automatic locking 25
Automatic transmission 97

B

Battery discharge protection 82
Bonnet 118
Brake and clutch fluid..... 161
Brake and clutch system 67
Brake assist 102
Brake fluid 127
Brakes 101
Bulb replacement 128

C

Capacities 173
Catalytic converter 96
Central locking system 21
Charging system 66
Child locks 25
Child restraint installation locations 46
Child restraint systems 43
Climate control 14
Clock..... 60
Colour-Info-Display..... 71
Control indicators..... 64
Control of the vehicle 92
Convex shape 29
Coolant and antifreeze..... 161
Cruise control 70, 104
Cupholders 49
Curtain airbag system 43
Customer assistance offices..... 176
Customer satisfaction procedure 176

D

Danger, Warnings and Cautions ... 3
Diesel fuel system bleeding 128
Diesel particle filter..... 69, 95
Door open 70
Driver Information Center..... 70

E

Electric adjustment 29
Electronic climate control system 85
Electronic driving programmes 99
Electronic key system..... 20
Electronic Stability Control . . 68, 103
Electronic Stability Control off..... 68
Engine air filter..... 125
Engine compartment fuse box ... 138
Engine compartment overview… 120
Engine coolant 126
Engine coolant temperature gauge 63
Engine data 169
Engine exhaust 95
Engine oil 124, 161
Engine oil pressure 69
Entry lighting 82
Exit lighting 82
Exterior care 157
Exterior light 70
Exterior lighting 11

F

Fault 99
Fixed air vents 90
Fog light 70
Fog lights 130
Folding mirrors 29
Footbrake..... 70
Front airbag system 41
Front fog lights 80
Fuel for diesel engines 109
Fuel for petrol engines 109
Fuel gauge 62
Fuses 137

G

General information 111
Glovebox 49

H

Halogen headlights 128
Hand brake..... 102
Hazard warning flashers 79
Headlight flash 79
Head restraint adjustment 6
Head restraints 33
Heated mirrors 29
Heated rear window 32
Heating 36
High beam 70, 79
Horn 12, 58

I

Identification plate 165
Ignition switch positions 93
Immobiliser 28, 69
Instrument panel fuse box 140
Instrument panel illumination 137
Instrument panel illumination control 81
Instrument panel overview 9
Instrument panel storage..... 48
Interior care 159
Interior lights 81, 136
Interruption of power supply 100
Introduction 3
Isofix child restraint systems 47

J

Jump starting 154

K

Keys 19

L

Lashing eyes 54
Light switch 78
Load compartment 25, 50
Load compartment cover 52
Loading information 56
Low fuel 69

M

Malfunction indicator light 67
Manual anti-dazzle 30
Manual mode 99
Manual transmission 101

Mirror adjustment 7
Misted light covers 80

N
New vehicle running-in 92
Number plate light 135

O
Odometer 62
Outside temperature 60
Overrun cut-off 95

P
Parking 18, 95
Parking assist 106
Parking brake 102
Performing work 118
Pollen filter 90
Power outlets 61
Power steering..... 67
Power steering fluid..... 126
Power windows 30
Preheating 68

R
Radio remote control 19
Reading lights 81
Rear floor storage cover 53
Rear storage..... 51
Rear view camera 107
Rear window wiper/washer 59
Recommended fluids and lubricants 161, 168
Refuelling 110
Reversing lights 80
Roof load..... 56
Roof rack 55

S
Safety net 54
Seat adjustment 5, 35
Seat belt 7
Seat belt reminder 66
Seat belts 37
Seat position 34
Selector lever 97
Service 90, 160
Service display 63
Service information 160
Service vehicle soon 67
Side airbag system 42
Side turn signal lights 135
Spare wheel 152
Speedometer 61
Sport mode..... 98
Starting off 16
Starting the engine 93
Steering wheel adjustment 8, 57
Steering wheel controls 57
Storage compartments..... 48
Sunglasses storage 50
Sun visors 32
Symbols 3

T
Tachometer 62
Tail lights 130
Three-point seat belt 39
Tools 142
Top-tether child restraint systems 47
Tow bar..... 111
Towing the vehicle 156
Traction Control system 103
Traction Control system off..... 68
Trailer towing 112
Transmission 15
Transmission display 97
Tread depth 143
Trip computer 74
Trip odometer 62
Turn and lane-change signals 80
Turn signal 66
Tyre chains 144
Tyre pressure 143
Tyre pressures 174
Tyre repair kit 145

U
Ultrasonic parking assist 68
Unlocking..... 4

Upholstery..... 159
Using this manual 3

V

Vehicle battery 127
Vehicle dimensions 171
Vehicle Identification Number 164
Vehicle messages 72
Vehicle personalisation 75
Vehicle storage..... 117
Vehicle unlocking 4
Vehicle weight 170

W

Warning chimes 73
Washer and wiper systems 13
Washer fluid 127
Wheel changing 148
Wheel covers 144
Wheels and tyres 143
Windscreen wiper/washer 58
Wiper blade replacement 128

JH CRUZE

OWNER'S HANDBOOK

JH CRUZE

OWNER'S HANDBOOK

GM Holden Ltd, ABN 84 006 893 232 (hereinafter Holden)

Change of name, address or ownership

In the event of a Safety Recall, or for various reasons, Holden may need to contact you as the owner of this vehicle.

If you have recently changed your address, or name, or purchased this vehicle second-hand, please help us to help you by taking a few minutes to fill in and mail the forms at the beginning of the Service/warranty booklet.

For information about GM Holden's privacy policy or to update owner details online, please visit Holden's website at www.holden.com.au

Note Please refer to the inside front cover of the Service/ warranty booklet for the Vehicle Identification Certificate.

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Contents

Introduction 2
In brief 4
Keys, doors and windows 19
Seats, restraints 33
Storage 48
Instruments and controls 57
Lighting 78
Climate control 83
Driving and operating 92
Vehicle care 117
Service and maintenance 160
Technical data 164
Customer information 176
Index 178

Introduction

We thank you for choosing Holden and want to assure you of our continuing interest in your driving pleasure and satisfaction.

This handbook applies to the current Cruze model. Therefore, due to different models and options, you may find reference in this Handbook to some equipment not fitted to your own vehicle.

Please note that all information, illustrations and specifications in this Handbook are based on the latest production information available at the time of printing. Holden reserves the right to make changes at any time without notice and without incurring any obligation.

Introduction

Your vehicle is a designed combination of advanced technology, safety, environmental friendliness and economy.

This Owner's Manual provides you with all the necessary information to enable you to drive your vehicle safely and efficiently.

Make sure your passengers are aware of the possible risk of accident and injury which may result from improper use of the vehicle.

Using this manual

- The "In brief" section will give you an initial overview.
- The table of contents at the beginning of this manual and within each chapter shows where the information is located.
- The index will enable you to search for specific information.
- Directional data, e.g. left or right, or front or back, always relate to the direction of travel.
- Depending on the model variant, integrated special equipment and accessories, the scope of equipment of your vehicle can differ from the descriptions in this Owner's Manual.
- iPod® is a registered trademark of Apple Inc.
- Zune® is a registered trademark of Microsoft Corporation.

Danger, Warnings and Cautions

⚠Danger

Text marked ⚠**Danger** provides information on risk of fatal injury. Disregarding this information may endanger life.

⚠Warning

Text marked ⚠**Warning** provides information on risk of accident or injury. Disregarding this information may lead to injury.

Caution

Text marked **Caution** provides information on possible damage to the vehicle. Disregarding this information may lead to vehicle damage.

Symbols

Page references are indicated with ⇨. ⇨ means "see page".

In brief

Initial drive information

Vehicle unlocking

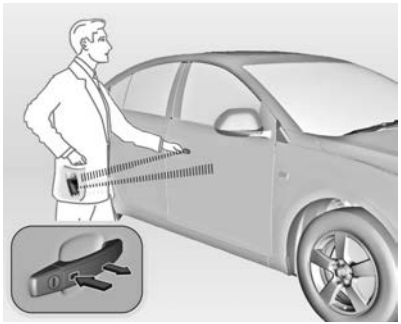
Radio remote control

Press button to unlock the doors and boot compartment. Open the doors by pulling the handles, to open the boot compartment, press the button under the boot lid moulding.

Press button, only the boot lid is unlocked and opens.

Remote control ⇨ 19, Central locking system ⇨ 21, Load compartment ⇨ 25.

Electronic key



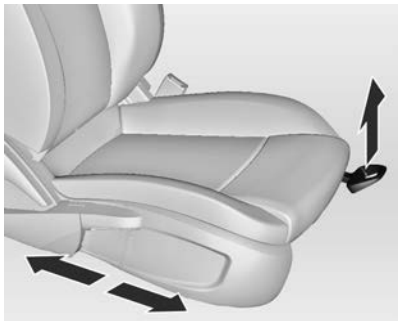
When in possession of the electronic key, press switch on door handle to unlock the vehicle and pull the door handle to open the door. To open the boot lid, press the button under the moulding.

Electronic key system ⇨ 20.

Seat adjustment

⚠Warning
Only drive with the seat correctly adjusted.

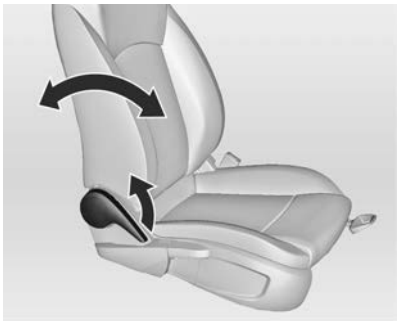
Seat positioning



Pull handle, slide seat, release handle.

Seat adjustment ⇨ 35, Seat position ⇨ 34.

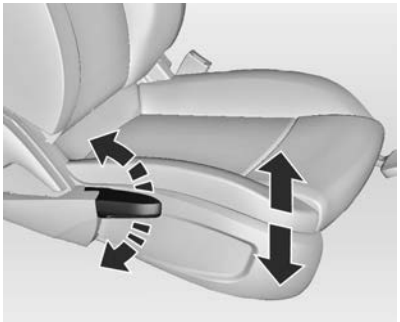
Seat backrests



Pull lever, adjust inclination and release lever. Allow the seat to engage audibly. Do not lean on backrest when adjusting.

Seat adjustment ⇨ 35, Seat position ⇨ 34.

Seat height

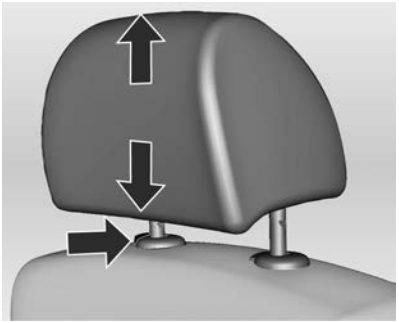


Lever pumping motion

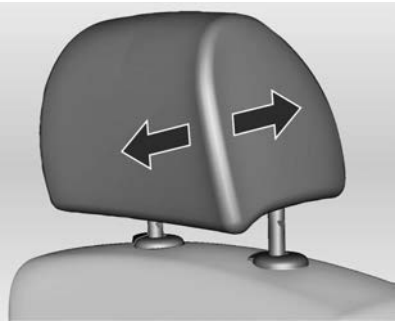
up = higher
down = lower

Seats ⇨ 35, Seat position ⇨ 34.

Head restraint adjustment



For height adjustment, pull the head restraint upward. To move down press the catch and push the head restraint downwards.



For horizontal adjustment, pull the head restraint forward, it engages in 3 positions. To bring into rear position automatically, pull head restraint close forward.

Head restraints ⇨ 33.

Seat belt

Pull out the seat belt and engage in belt buckle. The seat belt must not be twisted and must fit close against the body. The backrest must not be tilted back too far (maximum approx. 25 °).

To release belt, press red button on belt buckle.

Seat belts ⇨ 37, Airbag system ⇨ 40, Seat position ⇨ 34.

Mirror adjustment

Interior mirror

Adjust the lever on the underside to reduce glare.

Interior mirror ⇨ 30.

Exterior mirrors

Select the relevant exterior mirror and adjust.

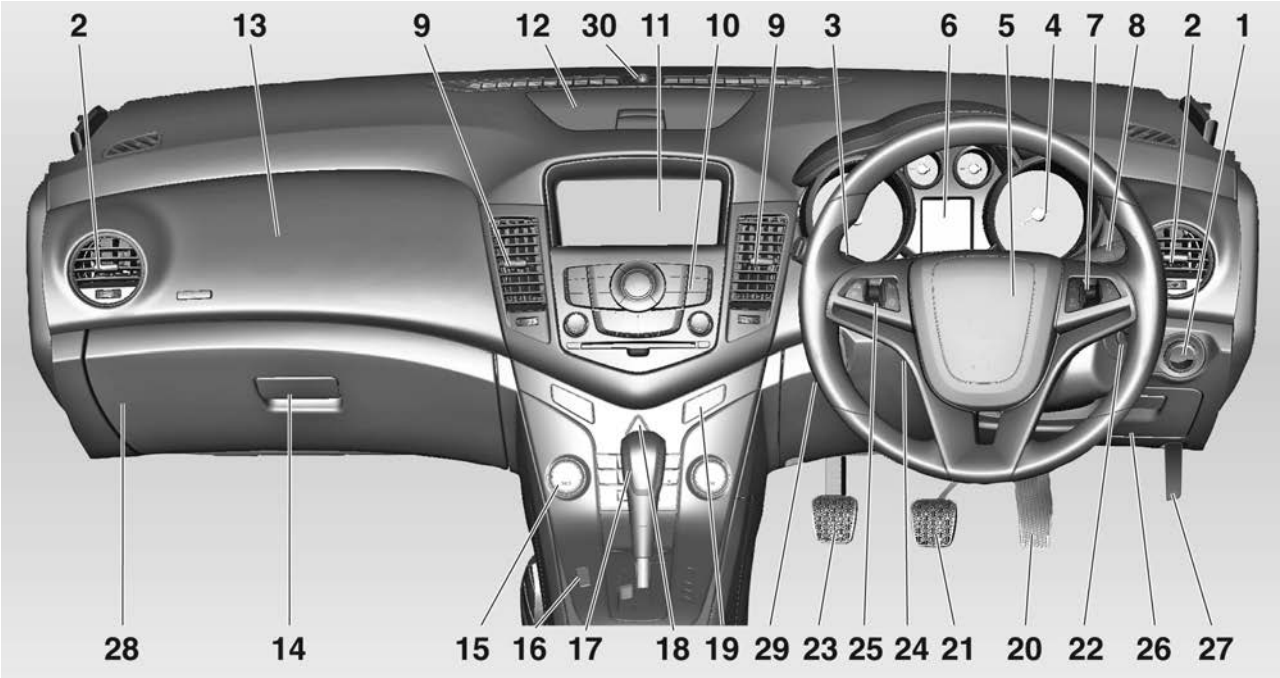
Electric adjustment ⇨ 29, Convex exterior mirrors ⇨ 29, Folding exterior mirrors ⇨ 29, Heated exterior mirrors ⇨ 29.

Steering wheel adjustment

Unlock lever, adjust steering wheel, then engage lever and ensure it is fully locked. Do not adjust steering wheel unless vehicle is stationary and steering wheel lock has been released.

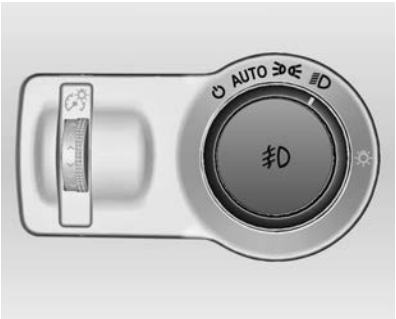
Airbag system ⇨ 40, Ignition positions ⇨ 93.

Instrument panel overview



1 Light switch 78
Front fog lights 80
Instrument illumination 81
2 Side air vents 89
3 Windscreen wipers, windscreen washer system, rear wiper, rear washer system 58
4 Speedometer 61
5 Horn 58
Driver's airbag 41
6 Driver Information Centre 70
7 Steering wheel control for Infotainment system 57
8 Turn signals, headlight flash, low beam and high beam 80
Exit lighting 82
Driver Information Centre 70
9 Centre air vents 89
10 Infotainment system
11 Info-Display 71
12 Storage 48
13 Front passenger airbag 41
14 Glovebox 49
15 Climate control system 83
16 Traction control system 103
Electronic Stability Control . 103
17 Shift lever, automatic transmission 97
Manual transmission 101
18 Hazard warning flashers 79
19 Central locking system 21
20 Accelerator pedal 92
21 Brake pedal 101
22 Ignition switch with steering wheel lock 93
23 Clutch pedal 92
24 Steering wheel adjustment . . 57
25 Cruise Control 104
26 Storage compartment 48
27 Bonnet release lever 118
28 Internal fuse compartment . . 140
29 Start/Stop button, Electronic key system 20
30 Anti-theft alarm system status LED 27

Exterior lighting



Turn

AUTO = Automatic light control: Headlights are switched on and off automatically depending on external light conditions.

⏻ = activation or deactivation of the automatic light control, switch turns back to **AUTO**

≡D = parking lights

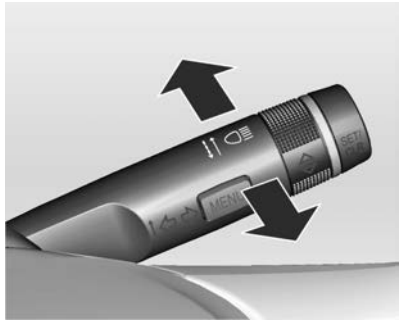
≡D = headlights and parking lights

Press

≡D = front fog lights (If fitted)

Lighting ⇨ 78.

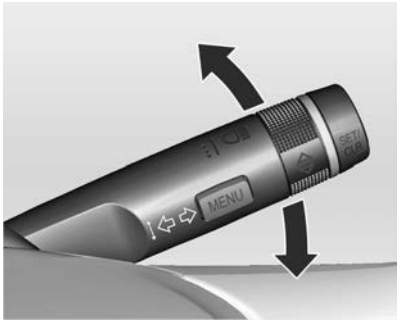
Headlight flash, high beam and low beam



headlight flash	=	pull lever
high beam	=	push lever
low beam	=	pull lever from high beam position

High beam ⇨ 79, Headlight flash ⇨ 79, Automatic light control ⇨ 78.

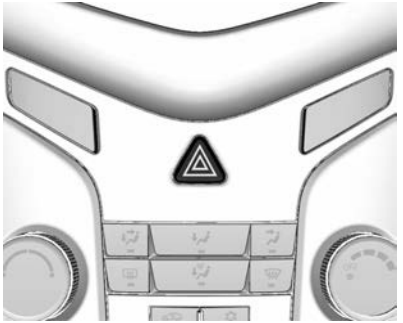
Turn and lane-change signals



left = lever up
right = lever down

Turn and lane change signals ⇨ 80.

Hazard warning flashers



Operated with the ⚠ button.

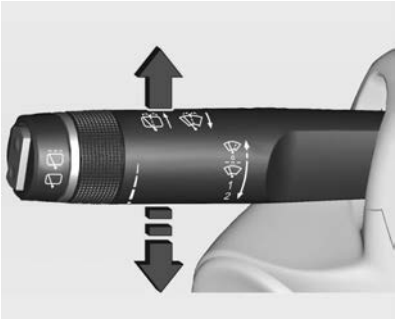
Hazard warning flashers ⇨ 79.

Horn

Press .

Washer and wiper systems

Windscreen wipers



2 = fast
1 = slow
= timed interval wiping
O = off

For a single swipe when the windscreen wipers are off, push the lever up.

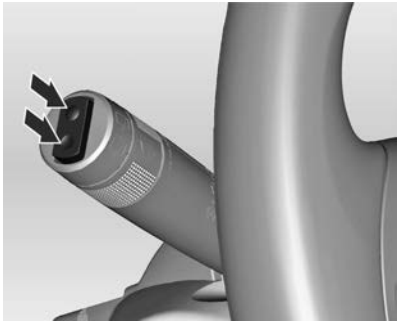
Windscreen wipers ⇨ 58, Wiper replacement ⇨ 128.

Windscreen washer system

Pull lever.

Windscreen washer system ⇨ 58, Washer fluid ⇨ 127.

Rear window wiper and washer systems



Press the rocker switch to activate the rear window wiper:

upper position = intermittent operation
lower position = continuous operation
middle position = off

Rear window wiper/washer ⇨ 59.

Push lever.

Washer fluid is sprayed on the rear window and the wiper wipes a few times.

Climate control

Heated rear window, heated exterior mirrors

Air conditioning system (if fitted)

Electronic climate control system (if fitted)

Heating is operated by pressing the button.

Heated rear window ⇨ 32.

Climate control ⇨ 83.

Demisting and defrosting the windows

Press button .

Set temperature control to warmest level.

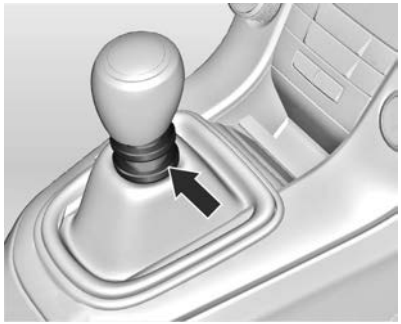
Cooling on.

Heated rear window on.

Climate control system ⇨ 83.

Transmission

Manual transmission



Reverse: when the vehicle is stationary, depress the clutch pedal and then pull up the ring on the shift lever and engage the gear.

If the gear does not engage, set the lever in neutral, release the clutch pedal and depress again; then repeat gear selection.

Manual transmission ⇨ 101.

Automatic transmission

P = park
R = reverse
N = neutral
D = drive

Sport mode: move shift lever from **D** to the left.

Manual mode: move shift lever from **D** to the left and then forwards or backwards.

+ = higher gear
− = lower gear

The shift lever can only be moved out of **P** when the ignition is on and the brake pedal is applied. To engage **P** or **R**, push the release button.

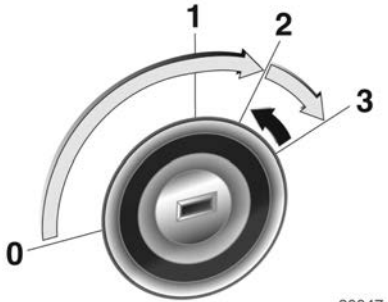
Automatic transmission ⇨ 97.

Starting off

Check before starting off

- Tyre pressure and condition ⇨ 143.
- Engine oil level and fluid levels ⇨ 124.
- All windows, mirrors, exterior lighting and number plates are free from dirt, snow and ice and operational.
- Proper position of seats, seat belts and mirrors ⇨ 34, ⇨ 39, ⇨ 29.
- Check brake function at low speed, particularly if the brakes are wet.

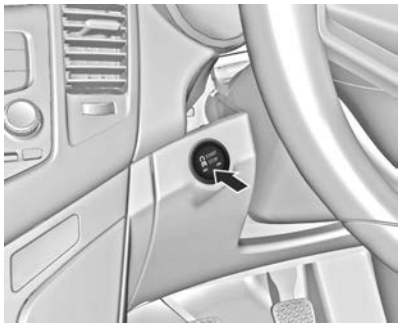
Starting the engine



- Turn key to position 1.
- Move the steering wheel slightly to release the steering wheel lock.
- Manual transmission: operate clutch.
- Automatic transmission: operate brake and move shift lever in **P** or **N**.
- Do not accelerate.
- Diesel engine: turn the key to position **2** for preheating until control indicator ⟟ goes out.
- Turn key to position **3** and release when engine is running.

Before restarting or to switch off the engine, turn key back to **0**.

Starting engine with the Start/Stop button



- The electronic key must be inside the vehicle.
- Manual transmission: depress the clutch pedal.
- Automatic transmission: depress the brake pedal and move the shift lever to **P** or **N**.
- Do not accelerate.
- Press the Start/Stop button. The green LED will illuminate.

To switch off the engine, press the button again whilst the engine is running.

Starting the engine ⇨ 93.

Parking

- Always apply parking brake without pressing release button. Apply as firmly as possible on a downhill slope or uphill slope. Operate foot brake at same time to reduce operating force.
- Switch off the engine and ignition. Turn the ignition key to 0, remove and turn the steering wheel until the steering wheel lock is felt to engage. Vehicles with electronic key system: with the vehicle stationary, press the **Start/Stop** button and open the driver's door.

  For vehicles with automatic transmission, move shift lever to **P** position and remove key.
- If the vehicle is on a level surface or uphill slope, engage first gear (for vehicles fitted with manual transmission) or set the shift lever to **P** (for vehicles fitted with automatic transmission) before switching off the ignition. On an uphill slope, turn the front wheels away from the kerb.

  If the vehicle is on a downhill slope, engage reverse gear or set the shift lever to **P** before switching off the ignition. Turn the front wheels towards the kerb.
- Close windows.
- Lock the vehicle with button on the remote control or, for vehicles with electronic key system, press switch on the door handle.
- Activate the anti-theft alarm system ⇨ 27.
- Do not park the vehicle on an easily flammable surface. The high temperature of the exhaust system could ignite the surface.
- The engine cooling fans may run after the engine has been switched off ⇨ 118.
- Diesel engines: after running at high engine speeds or with high engine loads, operate the engine briefly at a low load or run for about 1 to 2 minutes at idle speed before switching off in order to protect the turbocharger.

Keys, locks ⇨ 19.

Keys, doors and windows

Keys, locks 19
Doors 25
Vehicle security 27
Exterior mirrors 29
Interior mirrors 30
Windows 30

Keys, locks

Keys

Replacement keys

The key number is specified on a detachable tag.

Locks ⇨ 157.

Key with foldaway key section

Press button to extend. To fold the key, first press the button.

Radio remote control

Used to operate:

- Central locking system
- Anti-theft alarm system
- Load compartment

The remote control has a range of approx. 25 metres. This range can be affected by outside influences.

The hazard warning flashers confirm operation.

Handle with care, protect it from moisture and high temperatures and avoid unnecessary operation.

Fault

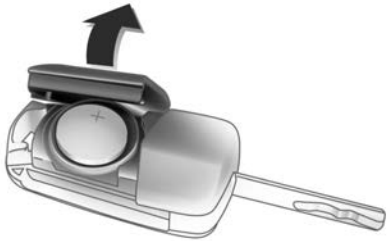
If the central locking system cannot be operated with the radio remote control, it may be due to the following:

- Range exceeded,
- Battery voltage too low,
- Frequent, repeated operation of the remote control while not in range, which will require resynchronisation,
- Overloading the central locking by operating at frequent intervals, the power supply is interrupted for a short time,
- Interference from higher-power radio waves from other sources.

Opening the vehicle ⇨ 21.

Remote control battery replacement

Replace the battery as soon as the range reduces, or as per the service schedule.



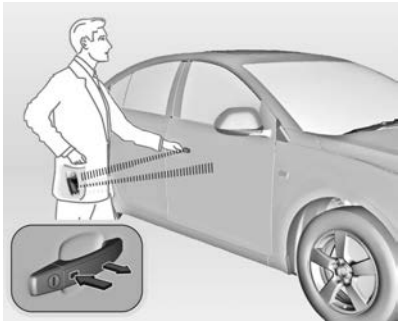
Extend the key and open the unit. Replace the battery (battery type CR 20 32), paying attention to the installation position. Close the unit and synchronise.

Remote control synchronisation

After replacing the battery, unlock the door with the key in the lock. The remote control will be synchronised when you switch on the ignition.

Electronic key system

(If fitted)



Makes operation of the following possible without the use of the mechanical key.

- Central locking system
- Anti-theft alarm system
- Ignition and starter

The electronic key simply needs to be on the driver's person.

Note

Do not put the electronic key in the boot or in front of the Info-Display.

Starting the engine ⇨ 93.

Radio remote control

The electronic key also has a radio remote control feature.

Replacing battery in electronic key

Replace the battery as soon as the system no longer operates properly or the range is reduced. The need for battery replacement is indicated by an error code in the Driver Information Centre ⇨ 72.

Batteries do not belong in household waste. They must be disposed of at an appropriate recycling collection point.

Radio remote control battery replacement ⇨ 19.

Replace the battery (battery type CR 2032), noting the installation position. Engage caps.

Radio remote control synchronisation

The radio remote control synchronises itself automatically during every starting procedure.

Fault

If the central locking cannot be operated or the engine cannot be started, the messages **No Remote Detected** or **No Remote Detected. Press Brake to Restart** may be displayed on the Driver Information Centre (DIC). The cause may be one of the following:

- Fault in remote control,
- Electronic key out of reception range,
- Battery voltage too low,
- Interference from higher-power radio waves from other sources.

Try repositioning the electronic key or follow the electronic key manual override ⇨ 93.

Central locking system

Unlocks and locks doors, boot and fuel filler flap.

A pull on an interior door handle unlocks and opens the door.

Note
In the event of an accident of a certain severity, the vehicle unlocks automatically.

Unlocking

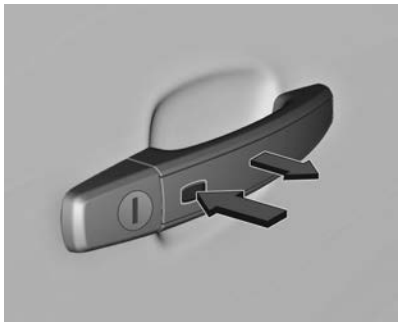
Remote control

Press button .

It is configurable to unlock only the driver's door, fuel filler flap and boot by pressing button once and to unlock all by pressing button twice.

Settings can be changed in the menu **Vehicle Settings** in the Info-Display. Vehicle personalisation ⇨ 75.

Electronic key system



Press switch on a door handle to unlock the vehicle and pull the door handle to open the door, or press the button under the boot lid moulding.

The electronic key must be outside the vehicle within a range of approximately one metre of the relevant door side.

It is configurable to unlock only the driver's door or all doors.

Settings can be changed in the menu **Vehicle Settings** in the Info-Display. Vehicle personalisation ⇨ 75.

Locking

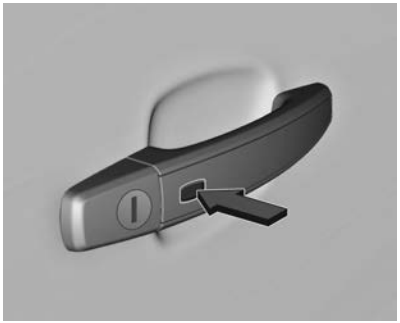
Remote control

Close doors, boot and fuel filler flap.

Press button .

If the driver's door is not closed properly, the central locking system will not work on driver's door. Activation or deactivation of the remote control is listed in the menu **Vehicle Settings** in the Info-Display. Vehicle personalisation ⇨ 75.

Electronic key system



Press the switch on a door handle.

The electronic key must be outside the vehicle, within a range of approximately one metre to the relevant door. The spare electronic key must not be inside the vehicle.

It is possible to check that the vehicle is locked by pulling the handle without pressing the button.

Note
The vehicle is not automatically locked.

Unlocking the boot lid

5 Door hatchback, Sportwagon

Press button ⍐ once or twice, depending on the selected setting. The tailgate will unlock.

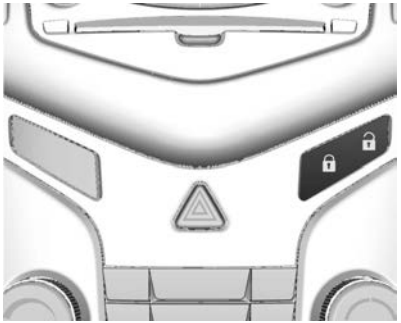
Vehicle personalisation ⇨ 75.

4 Door sedan

Press button ⌓. The boot lid will unlock and open, whilst all other doors remain locked.

Central locking buttons

Locks or unlocks all doors, the load compartment and fuel filler flap.



Press the button to lock.
Press the button to unlock.

Fault in remote control system or electronic key system

Unlocking

Manually unlock the driver's door by turning the key in the lock. Switch on the ignition and press the central locking button to unlock all doors, boot and fuel filler flap. To deactivate the anti-theft locking system, switch on the ignition.

Locking

Switch on the ignition and press the central locking button to lock the doors, boot and fuel filler flap. Then switch off the ignition, close the driver's door and lock it from the outside with the key.

Fault in central locking system

Unlocking

Manually unlock the driver's door by turning the key in the door barrel. The other doors can be opened by using the interior handle twice. The fuel filler flap cannot be opened. To deactivate the anti-theft locking system, switch on the ignition.

Locking

Push inside locking knob of all doors except driver's door. Then close the driver's door and lock it from the outside with the key. The fuel filler flap cannot be locked.

Automatic locking

Automatic locking after driving off

This security feature can be configured to automatically lock all doors, boot and fuel filler flap as soon as the vehicle starts to drive.

Settings can be changed in the menu **Vehicle Settings** in the Info-Display. Vehicle personalisation ⇨ 75.

Child locks

⚠ Warning

Use the child locks whenever children are occupying the rear seats.

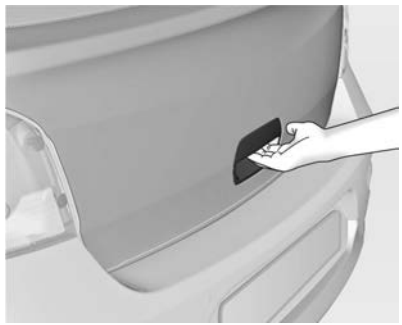
Using a key or suitable screwdriver, turn the child locks in the rear doors into horizontal position. Doors cannot be opened from inside. For deactivation turn the child locks into vertical position.

Doors

Load compartment

Opening

5 Door hatchback, Sportwagon



After unlocking, push the button below the handle and open the tailgate.

4 Door sedan

Push the button under the boot lid moulding or press button on the remote control until boot lid is opened.

⚠Danger

Do not drive with the boot lid open or ajar, e.g. when transporting bulky objects, since toxic exhaust gases could enter the vehicle.

Caution

Before opening the boot lid check overhead obstructions, such as a garage door, to avoid damage of the boot lid. Always check the moving area above and behind the boot lid.

Note
The installation of certain heavy accessories onto the boot lid may affect its ability to remain open.

Closing

5 Door hatchback

Use the interior handle.

4 Door sedan
Push the boot lid down until it latches.

Sportwagon
Lower the tailgate and push to close.

Vehicle security

Anti-theft alarm system

Anti theft alarm system monitors:

- Doors, boot lid, bonnet
- Passenger compartment including adjoining boot
- Vehicle inclination, e.g. if it is raised
- Ignition

Activation

- Self-activated 30 seconds after locking the vehicle (initialisation of the system), or
- Remote control: directly by pressing once more after locking, or
- Electronic key system: press on the key, after pressing the switch in the door handle to lock.

Note

Changes to the vehicle interior such as the use of seat covers, or open windows, could impair the function of passenger compartment monitoring.

Status LED

Status LED is integrated in the sensor on top of the instrument panel.

Status during the first 30 seconds of anti-theft alarm system activation:

LED illuminates	=	test, arming delay.
LED flashes quickly	=	doors, boot lid or bonnet not completely closed, or system fault.

Status after system is armed:

LED flashes slowly	=	system is armed.

Seek the assistance of a workshop in the event of faults.

Deactivation

Unlocking the vehicle by pressing button deactivates anti-theft alarm system.

Vehicles with electronic key system: Pressing the switch on a door handle deactivates anti-theft alarm system when the key is within approximately one metre of the relevant door.

Alarm

When triggered, the alarm sounds via a separate battery-backed power sounder, and the hazard warning lights flash simultaneously. The number and duration of alarm signals are stipulated by legislation.

The alarm can be silenced by pressing any button of the remote control or by switching on the ignition.

The anti-theft alarm system can be deactivated only by pressing the button , by pressing the switch on a door handle (only electronic key system) or switching on the ignition.

Immobiliser

The system is integrated into the ignition switch and checks whether the vehicle is allowed to start with the key being used. If the transponder in the key is recognised, the vehicle can be started.

The immobiliser activates itself automatically after the key has been removed from the ignition switch or when the engine is switched off by pressing the Start/Stop button.

If the control indicator flashes or illuminates when the ignition is on, there is a fault in the system; the engine cannot be started. Switch off the ignition and then repeat the start attempt.

If the control indicator continues flashing, attempt to start the engine using the spare key and seek the assistance of your Holden Dealer.

Note

The immobiliser does not lock the doors. You should always lock the vehicle after leaving it.

Control indicator ▷ 69.

Exterior mirrors

Convex shape

The convex exterior mirror reduces blind spots. The shape of the mirror makes objects appear smaller, which will affect the abilty to estimate distances.

Electric adjustment

Select the relevant exterior mirror by turning the control to left **(L)** or right **(R)**. In position **0** no mirror is selected.

Then swivel the control to adjust the mirror.

Folding mirrors

For pedestrian safety, the exterior mirrors will swing out of their normal mounting position if they are struck with sufficient force. Reposition the mirror by applying slight pressure to the mirror housing.

Heated mirrors

Air conditioning system (if fitted)

Electronic climate control system (if fitted)

Operated by pressing the button.

Heating works with the engine running and is switched off automatically after a short time.

Interior mirrors

Manual anti-dazzle

To reduce glare, pull the lever on the underside of the mirror housing.

Windows

Power windows

⚠Warning

Take care when operating the power windows. Risk of injury, particularly to children.

If there are children on the rear seat, switch on the child safety system for the power windows.

Keep a close watch on the windows when closing them. Ensure that nothing becomes trapped in them as they move.

Power windows can be operated

- with ignition on,
- within 10 minutes after switching ignition off.

After switching off the ignition, window operation is disabled when a front door is opened.

Operate the switch for the respective window by pushing to open or pulling to close.

Operation of driver's window

Pushing or pulling lightly to the first detent: window moves down or up as long as switch is operated.

Pushing or pulling further to the second detent and then releasing: window moves down or up automatically with safety function. To stop movement, operate the switch once more in the same direction.

Operation of passenger's window and rear windows

Pushing or pulling lightly to the first detent: window moves down or up as long as switch is operated.

Pushing further to the second detent and then releasing: window moves down automatically. To stop movement, operate the switch once more in the same direction.

Safety function on driver's window

If the window glass encounters resistance above the middle of the window during automatic closing, it is immediately stopped and opened again.

Safety function all doors

In the event of closing difficulties due to frost or the like, hold the switch pulled. The window moves up without activating the safety function. To stop movement, release and operate the switch once more in the same direction.

Child safety system for rear windows

Press switch to deactivate rear door power windows, the LED lights up. To activate press again.

Overload

If the windows are repeatedly operated within short intervals, the window operation is disabled for some time.

Initialising the power windows

If the windows cannot be closed automatically (e.g. after disconnecting the vehicle battery), a

warning message or a warning code is displayed in the Driver Information Centre.

Vehicle messages ⇨ 72.

Activate the window electronics as follows:

1. Close doors.
2. Switch on ignition.
3. Close the window completely and keep the switch pulled for additional 2 seconds.
4. Repeat for each window.

Heated rear window

Air conditioning system (if fitted)

Electronic climate control system (if fitted)

Operated by pressing the button.

Heating works with the engine running and is switched off automatically after a short time.

Sun visors

The sun visors can be folded down or swivelled to the side to prevent glare.

If the sun visors have integral mirrors, the mirror covers should be closed when driving.

Seats, restraints

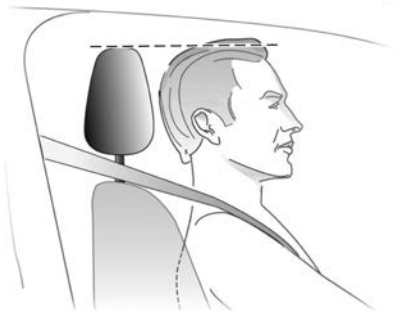
Head restraints 33
Front seats 34
Rear seats 37
Seat belts 37
Airbag system 40
Child restraints 43

Head restraints

Position

⚠Warning

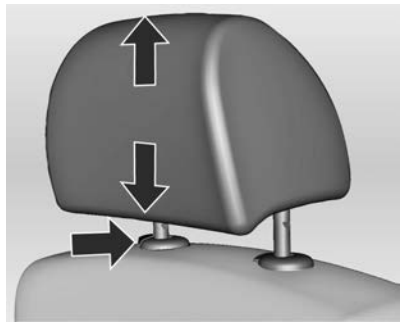
Only drive with the head restraint set to the proper position.



The upper edge of the head restraint should be at upper head level. If this is not possible for extremely tall people, set to highest position, and set to lowest position for small people.

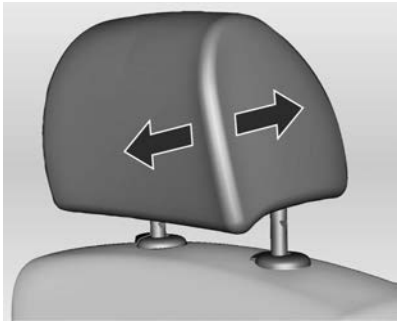
Head restraints on front seats

Height adjustment



Pull the head restraint upwards.

To move down press the catch and push the head restraint downwards.



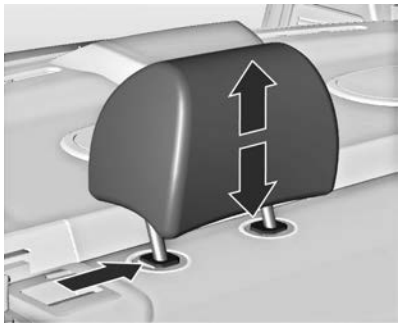
Horizontal adjustment

To adjust horizontally, pull the head restraint forwards and engage in one of three positions.

To return to its rearmost position, pull fully forwards and release.

Head restraints on rear seats

Height adjustment



Pull the head restraint upwards.

To move down press the catch and push the head restraint downwards.

Front seats

Seat position

⚠ Warning
Only drive with the seat correctly adjusted.

- Sit with your buttocks as far back against the backrest as possible. Adjust the distance between the seat and the pedals so that your legs are slightly angled when

applying the pedals. Slide the passenger seat as far back as possible.

- Sit with your shoulders as far back against the backrest as possible. Set the backrest rake so that you can easily reach the steering wheel with your arms slightly bent. Maintain contact between your shoulders and the backrest when turning the steering wheel. Do not angle the backrest too far back. We recommend a maximum rake of approx. 25 °.
- Adjust the steering wheel ⇨ 57.
- Set seat height high enough to have a clear field of vision on all sides and of all display instruments. There should be at least one hand of clearance between your head and the headlining. Your thighs should rest lightly on the seat without pressing into it.
- Adjust the head restraint ⇨ 33.
- Adjust the height of the seat belt ⇨ 39.

Seat adjustment

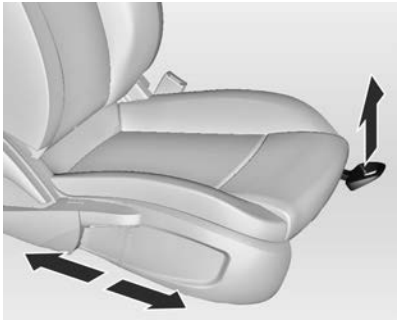
⚠ Danger

Do not sit nearer than 25 cm from the steering wheel, to permit safe airbag deployment.

⚠ Warning

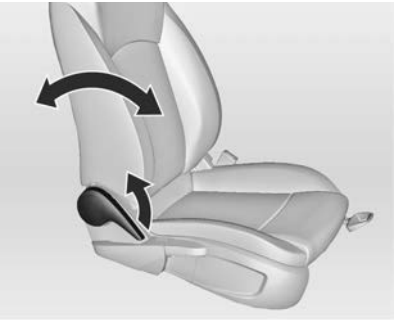
Never adjust seats while driving as they could move uncontrollably.

Seat positioning



Pull handle, slide seat, release handle.

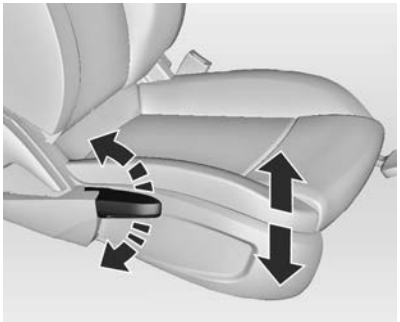
Seat backrests



Pull lever, adjust inclination and release lever. Allow the seat to engage audibly.

Do not lean on seat when adjusting.

Seat height



Lever pumping motion

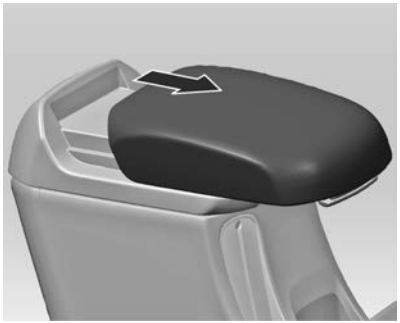
up = higher
down = lower

Armrest

Armrest between front seats

Push button on the front edge and fold armrest upward. The open armrest contains a stowage compartment.

Horizontal adjustment



Push button to slide the armrest.

Heating

(If fitted)

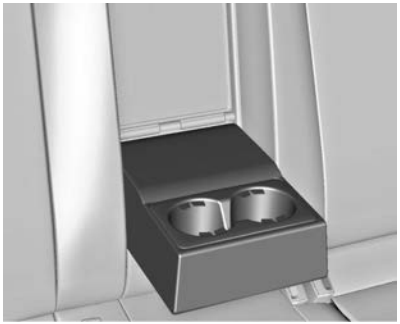
Activate front seat heating (while the engine is running) by pressing the button in the control knob for temperature (left seat) or fan speed (right seat) one or more times with the ignition on. The number of LEDs in the button indicates the setting.

Prolonged use of the highest level for people with sensitive skin is not recommended.

Seat heating is operational when the engine is running.

Rear seats

Armrest



Fold armrest down by pulling the strap. The folded armrest contains drink holders.

Seat belts

Seat belt reminder for driver's seat and front passenger seat, seat belt control indicator ⇨ 66.

The belts are locked during heavy acceleration or deceleration of the vehicle for the safety of the occupants.

⚠Danger

Fasten seat belt before each trip.

In the event of an accident, people not wearing seat belts endanger their fellow occupants and themselves.

⚠Warning

Seatbelts are designed to bear upon the bony structure of the body, and should be worn low across the front of the pelvis or the pelvis, chest and shoulders, as applicable; wearing the lap section of the belt across the abdominal area must be avoided.

Seatbelts should be adjusted as firmly as possible, consistent with comfort, to provide the protection for which they have been designed. A slack belt will greatly reduce the protection afforded to the wearer.

Care should be taken to avoid contamination of the webbing with polishes, oils and chemicals, and particularly battery acid. Cleaning may safely be carried out using mild soap and water. The belt should be replaced if webbing becomes frayed, contaminated or damaged.

It is essential to replace the entire assembly after it has been worn in a severe impact even if damage to the assembly is not obvious.

Belts should not be worn with straps twisted.

Each belt assembly must only be used by one occupant; it is dangerous to put a belt around a child being carried on the occupant's lap.

No modifications or additions should be made by the user which will either prevent the seatbelt adjusting devices from operating to remove slack, or prevent the seatbelt assembly from being adjusted to remove slack.

Periodically check all parts of the belt system for damage, soiling and proper functionality.

Have damaged components replaced. After an accident, have the belts and triggered belt tensioners replaced by your Holden Dealer.

Note

Make sure that the belts are not damaged by shoes or sharp-edged objects or trapped. Prevent dirt from getting into the belt retractors.

Belt force limiters

In the front seats, stress on the body is reduced by dampened release of the belt during a collision.

Belt tensioners

In the event of a head-on or rear-end collision of a certain severity, the front seat belts are tightened.

⚠ Warning

Incorrect handling (e.g. removal or fitting of belts or belt buckles) can trigger the belt tensioners with risk of injury.

Deployment of the belt tensioners is indicated by illumination of control indicator ⇨ 66.

Triggered belt tensioners must be replaced by your Holden Dealer. Belt tensioners can only be triggered once.

Note
Do not affix or install accessories or other objects that may interfere with the operation of the belt tensioners. Do not make any modifications to belt tensioner components as this will invalidate the vehicle type approval.

Three-point seat belt

Fitting

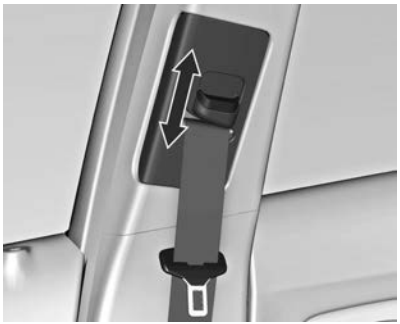
Withdraw belt from reel, guide it untwisted across the body and engage the latch plate in the buckle. Tension the lap belt regularly whilst driving by tugging the shoulder belt.

Loose or bulky clothing prevents the belt from fitting snugly. Do not place objects such as handbags or mobile phones between the belt and your body.

⚠Warning

The belt must not rest against hard or fragile objects in the pockets of your clothing.

Height adjustment

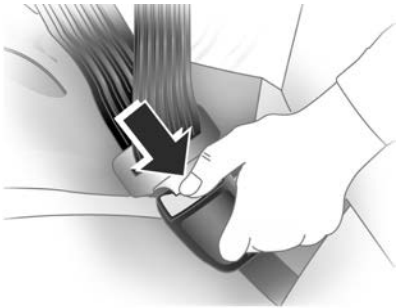


1. Pull belt out slightly.
2. Press button.
3. Adjust height and engage.

Adjust the height so that the belt lies across the shoulder. It must not lie across the throat or upper arm.

Do not adjust while driving.

Removing



To release belt, press red button on belt buckle.

Seat belts on the rear seats

The three point seat belt for the rear centre seat can only be withdrawn from the retractor if the backrest is in the rear position.

Pregnant women

Seatbelts work for everyone, including pregnant women. Like all occupants, they are more likely to be seriously injured if they do not wear a seatbelt. A pregnant woman should wear a three point seat belt with the lap portion of the belt worn as low as possible below the rounding of their stomach, throughout the pregnancy.

Airbag system

The airbag system consists of a number of individual systems.

When triggered the airbags inflate within milliseconds. They also deflate so quickly that it is often unnoticeable during the collision.

⚠Warning
If handled improperly the airbag systems can be triggered in an explosive manner.

Note

The airbag systems and belt tensioner control electronics are located in the centre console area. Do not put any magnetic objects in this area.

Do not stick anything on the airbag covers and do not cover them with other materials.

Each airbag is triggered only once. Have deployed airbags replaced by a Holden Dealer.

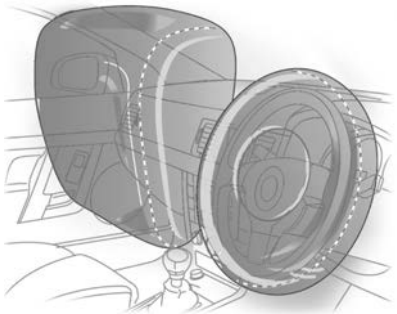
In the event of airbag deployment have the steering wheel, the instrument panel, all panelling parts, the door seals, the handles and the seats replaced by your Holden Dealer.

Control indicator for airbag systems ⇨ 66.

Front airbag system

The front airbag system consists of one airbag in the steering wheel and one in the instrument panel on the passenger side. These can be identified by the word **AIRBAG**.

The front airbag system is triggered in the event of an accident of a certain severity. The ignition must be on.



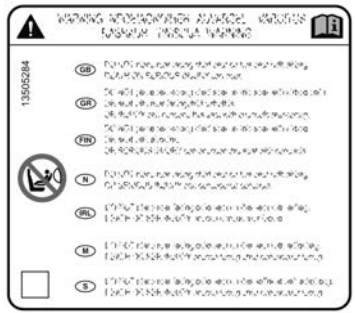
In the event of an accident (e.g. front end collision) the forward movement of the front seat occupants is retarded, thereby considerably reducing the risk of injury to the upper body and head.

⚠Warning

Optimum protection is only provided when the seat is in the proper position ⇨ 34.

Keep the area in which the airbag inflates clear of obstructions.

Wear the seat belt properly fastened. Only then the airbag is able to protect.



Refer to the airbag warning label on the passenger's sunvisor.

Depending on the body style, a different airbag label may be located on the passenger's sunvisor.

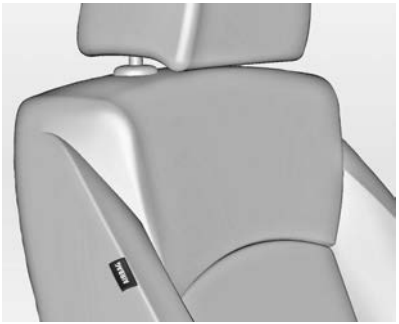
⚠Warning

EXTREME HAZARD!

Do not use a rearward facing child restraint on a seat protected by an airbag in front of it!

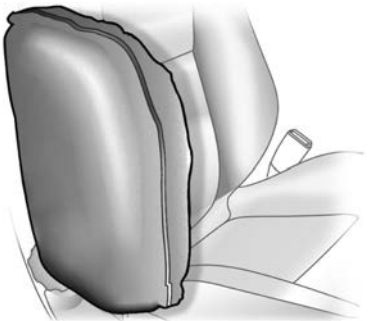
The child could be seriously injured if the airbag inflates, as the child's head would be very close to the inflating airbag.

Side airbag system



The side airbag system consists of an airbag in each front seat backrest. This can be identified by the word **AIRBAG**.

The side airbag system is triggered in the event of an accident of a certain severity. The ignition must be on.



The risk of injury to the upper body and pelvis in the event of a side-on collision is considerably reduced.

⚠Warning

Keep the area in which the airbag inflates clear of obstructions.

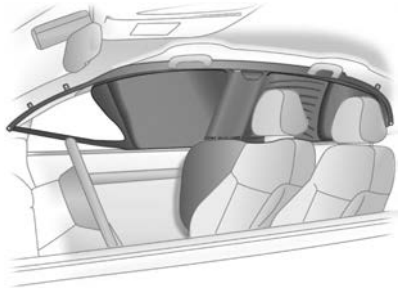
Note

Only use protective seat covers that have been approved for your vehicle. Be careful not to cover the airbags.

Curtain airbag system

The curtain airbag system consists of an airbag in the roof frame on each side. This can be identified by the word **AIRBAG** on the roof pillars.

The curtain airbag system is triggered in the event of an accident of a certain severity. The ignition must be on.



The risk of injury to the head in the event of a side impact is considerably reduced.

⚠Warning

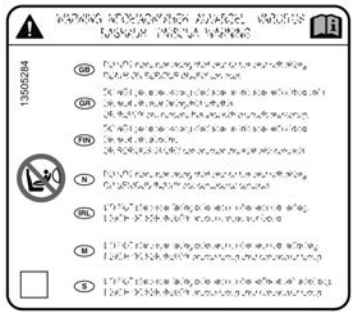
Keep the area in which the airbag inflates clear of obstructions.

The hooks on the handles in the roof frame are only suitable for hanging up light articles of clothing, without coat hangers. Do not keep any items in these clothes.

Child restraints

Child restraint systems

When a child restraint system is being used, pay attention to the following usage and installation instructions and also those supplied with the child restraint system.



Refer to the airbag warning label on the passenger's sunvisor.

Depending on the body style, a different airbag label may be located on the passenger's sunvisor.

⚠Warning

EXTREME HAZARD!

Do not use a rearward facing child restraint on a seat protected by an airbag in front of it!

The child could be seriously injured if the airbag inflates, as the child's head would be very close to the inflating airbag.

⚠Warning

This manual provides you with general information concerning child restraints only. The driver is required by law to ensure that passengers are suitably restrained.

In most States and Territories of Australia and New Zealand, specific laws may exist which require children to be seated in approved child restraints. Holden strongly recommends that you refer to your specific State or Territory regulations to determine which child restraint is suitable for your child.

Children should be restrained at all times when travelling in a vehicle.

Always ensure that the seat belt fits firmly around the child restraint.

If a child cannot see out of the window, do not raise him/her by means of an ordinary cushion. It will not stay in place in a collision and the child can slip out of the straps and become entangled.

⚠Warning

Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used for adult seat belts, harnesses or for attaching other items or equipment to the vehicle.

Only child restraints that have clips to attach to the vehicle's anchorage fitting are to be used. Earlier types of child restraints may not attach securely to this type of anchor.

Only Standards Australia approved child restraints and harnesses should be used. You should only purchase a child restraint which carries the appropriate Standards Australia sticker of approval.

Always follow the child restraint manufacturer's fitting instructions when installing a child restraint into the vehicle.

Selecting the right system

The rear seats are the safest location to fasten a child restraint system.

Your child should travel facing backwards in the vehicle, until as old as possible. It is appropriate to change the system when the child's head can no longer be properly supported at eye height. The child's cervical vertebrae are still very weak and in an accident they suffer less stress in the semi-prone rearward position than when sitting upright.

Never carry a child whilst travelling in the vehicle. The child will become too heavy to hold in the event of a collision.

When transporting children, use the child restraint systems suitable for the child's weight.

Ensure that the child restraint system to be installed is compatible with the vehicle type.

Ensure that the mounting location of the child restraint system within the vehicle is correct.

Only allow children to enter and exit the vehicle at the side facing away from the traffic.

When the child restraint system is not in use, secure the seat with a seat belt or remove it from the vehicle.

Note

Do not stick anything on the child restraint systems and do not cover them with any other materials.

A child restraint system which has been subjected to stress in an accident must be replaced.

Please ensure that infants and children are seated in the rear seats using child restraints.

Until the children can use seat belts, please select a child restraint suitable for its age and make sure the child wears it. Please see the instructions on the relevant products for child restraints.

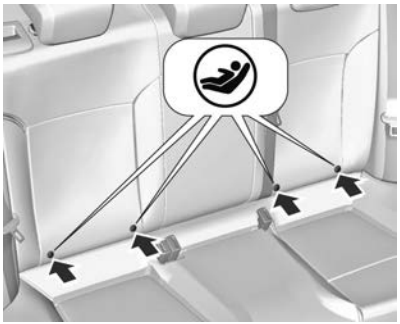
Child restraint installation locations

Permissible options for fitting a child restraint system

Weight and age class	On front passenger seat	On rear outboard seats	On rear centre seat
Group 0: up to 10 kg or approx. 10 months	X	U[1]	U
Group 0+: up to 13 kg or approx. 2 years	X	U[1]	U
Group I: 9 to 18 kg or approx. 8 months to 4 years	X	U[1]	U
Group II: 15 to 25 kg or approx. 3 to 7 years	X	U[1]	U
Group III: 22 to 36 kg or approx. 6 to 12 years	X	U[1]	U

U = Universal suitability in conjunction with three-point seat belt.
X = No child restraint system permitted in this weight class.
1 = Seat available with ISOFIX and Top-Tether mounting brackets.

Isofix child restraint systems



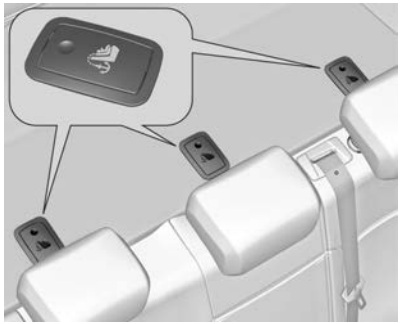
Fasten vehicle-approved ISOFIX child restraint systems to the ISOFIX mounting brackets.

Note
Ensure that seat belt buckles are placed out of the way of the child seat.

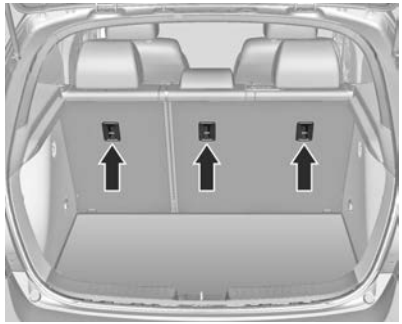
ISOFIX mounting brackets are indicated by a label on the seatback, see illustration.

In addition to the ISOFIX mounting, fasten the top-tether straps to the top-tether anchorage points. Top-tether child restraint systems ⇨ 47.

Top-tether child restraint systems



Fasten Top-tether child restraint systems to the fastening eyes on the places behind the rear head restraints or on the back of the rear seats.



The strap must run between the two guide rods of the head restraint.

When using Top-tether for seat mounting, universally approved child restraint systems for Top-Tether may be used.

Top-tether mounting loops are indicated by labels on the load compartment cover or on the back of the rear seats.

Storage

Storage compartments 48
Load compartment 50
Roof rack system 55
Loading information 56

Storage compartments

⚠Warning

Do not not store heavy or sharp objects in the storage compartments. Otherwise, the storage compartment lid could open and vehicle occupants could be injured by objects being thrown around in the event of sharp braking, a sudden change in direction or an accident.

Instrument panel storage

Storage on top of the instrument panel

Pull the grip to fold up the cover.

Storage below the light switch

Pull the grip to open the box.

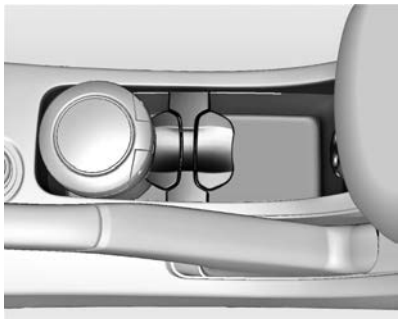
Glovebox

To open pull the grip.

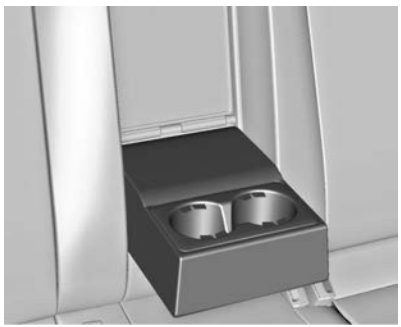
⚠Warning

To reduce the risk of injury in an accident or a sudden stop, always keep the glovebox door closed while driving.

Cupholders



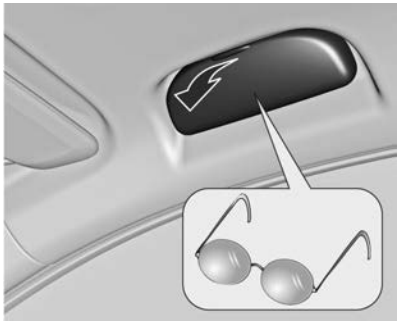
Cupholders are located in the centre console.



Additional cupholders are located in the rear armrest, when it is folded down.

Sunglasses storage

(If fitted)



Fold down to open.

Do not use for storing heavy objects.

Armrest storage

Storage in the front armrest

Push button on the front edge to slide and fold up the armrest.

Load compartment

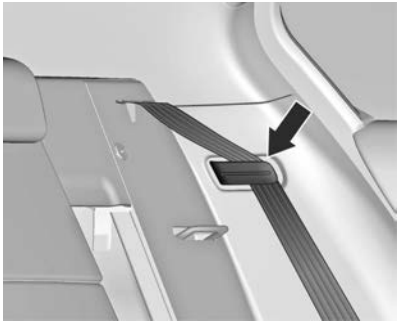
Folding down rear seat backrests

The rear backrest is divided into two parts. Both parts can be folded down.

Push head restraints down by pressing the catch.

Fold up rear armrest.

Pull release lever on one or both sides and fold down the backrests on the seat cushion.



The seat belts must be pulled out and positioned away from the back rest.

Fold up backrests into upright position.

Latch seat backrests into position by pushing at the upper part of the backrest until they engage audibly.

Pull seat backrests forward again to make sure they are correctly engaged.

The backrests are only engaged when the red marks on both sides near the release lever are not visible.

Insert all safety belts into the slots, if seat belts are not coiled up automatically.

The centre rear safety belt may lock when you raise the seatback. If this happens, let the belt go back all the way and start again.

Never fold seat backrest when the rear centre seat belt is buckled or extracted.

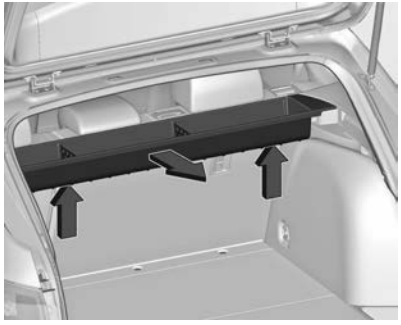
Bag hanger (if fitted)

On the left side in the boot is a retainer for hanging light carrier bags.

Rear storage

On Sportwagon a tray is located behind the rear seats.

Removing tray



Push tray upwards at the front to disengage

Pull tray rearwards and remove.

Installing tray

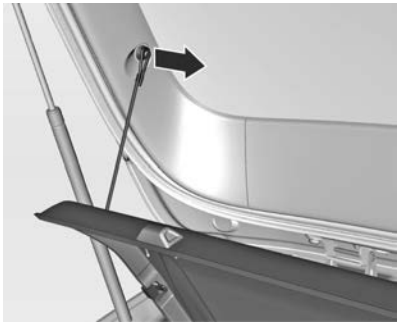
Engage tray in rear side guides and push tray down at the front to engage.

Load compartment cover

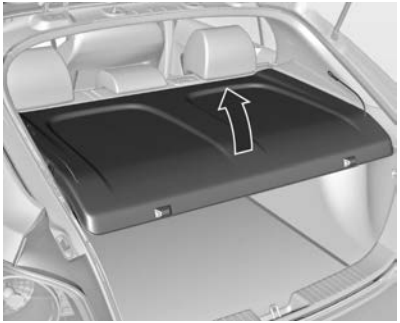
Do not place any objects on the cover.

5 Door hatchback

Removing



Unhook retaining straps from tailgate.



Lift cover at the rear and push it upwards at the front, from underneath.

Remove the cover.

Fitting

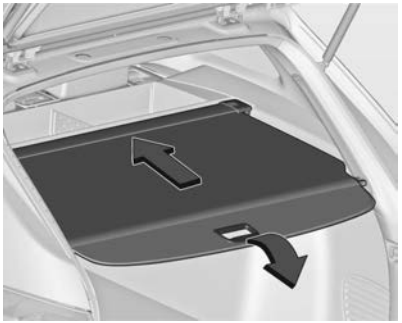
Engage cover in side guides and fold downwards. Attach retaining straps to tailgate.

Sportwagon

Closing cover

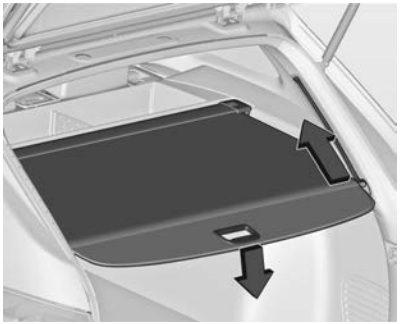
Pull the cover towards the rear using the handle until it locates in the side retainers. Lift slightly to engage.

Opening cover



Pull the handle at the end of the cover to the rear and downwards. It rolls up automatically.

Cover in upper position



Push the handle at the end of the cover downwards. The rear of the cover is guided upwards automatically.

Removing cover

Open the load compartment cover.

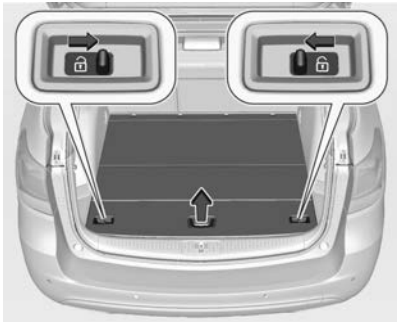
Pull the end of the cover inwards and lift the cover. Remove the cover.

Installing cover

Insert the cover in the side retainer on one side. Lower the cover and engage.

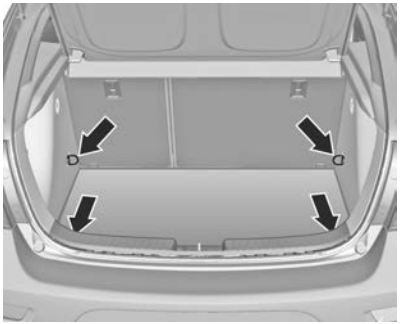
Rear floor storage cover

Rear floor cover, Sportwagon



Unlock the rear floor cover by pushing both catches inwards. Lift the cover by pulling the handle. Fold and place the cover behind the rear seats.

Lashing eyes



The lashing eyes are designed to secure items against slippage, e.g. using lashing straps or luggage net.

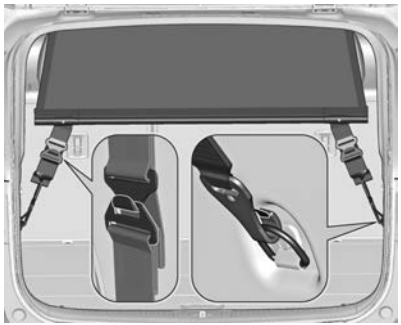
Safety net

The safety net is available on the Sportwagon and can be installed behind the rear seats or, if the rear seat backrests are folded, behind the front seats.

Passengers must not be transported behind the safety net.

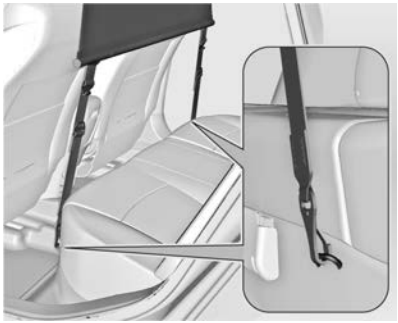
Installation

Behind the rear seats



Attach lower hook with opening facing backward to eye in the right and left sidewall. Adjust strap length on safety net by attaching the upper hook to the eyes of the strap. Keep strap under tension while proceeding with installation of rod.

Behind the front seats

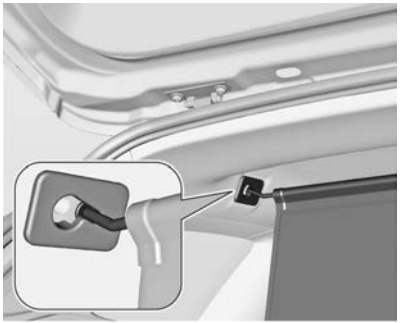


Attach strap to eyes underneath the rear seat cushion.

Fold backrests forward.

Move front seats forward to ease tension if necessary.

Installation of the rod



There are two installation openings in the roof frame: suspend and engage rod of net at one side, compress rod and suspend and engage at other side.

Load compartment ⇨ 50.

Removal

Unhook the safety net rods from the brackets in the roof frame. Detach straps from the eyes. Roll up the net and secure with a strap.

The removed safety net can be stored under the rear floor cover ⇨ 53.

Roof rack system

Roof rack

For safety reasons and to avoid damage to the roof, the vehicle approved roof rack system is recommended.

Follow the installation instructions and remove the roof rack when not in use.

⚠Warning

For safety reasons, and to avoid damaging the roof, use only the roof rack approved by Holden for your vehicle. The maximum allowable roof load (including the weight of the roof racks) is:

- Sedan, Hatchback: 45 kg
- Sportwagon: 50 kg

Roof rack loads alter the handling of a vehicle due to a change in the centre of gravity.

Avoid abrupt swerving or sharp steering when carrying loads on the roof rack.

Loading information

- Heavy objects in the boot should be placed against the seat backrests. Ensure the backrests are securely engaged. If objects can be stacked, the heavier objects should be placed at the bottom.
- Secure objects in load compartment to prevent sliding.
- Secure objects with lashing straps attached to lashing eyes ⇨ 54.
- When transporting objects in the load compartment, the backrests of the rear seats must not be angled forward.
- Do not allow the load to protrude above the upper edge of the backrests.
- Do not place any objects on the boot lid cover or the instrument panel, do not cover the sensor on top of the instrument panel.
- The load must not obstruct the operation of the pedals, parking brake and shift lever, or hinder the freedom of movement of the driver. Do not place any unsecured objects in the interior.
- Do not drive with an open boot lid.
- Optional equipment and accessories increase the kerb weight.
- Driving with a roof load increases the sensitivity of the vehicle to cross-winds and has a detrimental effect on vehicle handling due to the vehicle's higher centre of gravity. Distribute the load evenly and secure it properly with retaining straps. Adjust the tyre pressure and vehicle speed according to the load conditions. Check and retighten the straps frequently.

Instruments and controls

Controls 57
Warning lights, gauges and indicators 61
Information displays 70
Vehicle messages 72
Trip computer 74
Vehicle personalisation 75

Controls

Steering wheel adjustment

Unlock lever, adjust steering wheel, then engage lever and ensure it is fully locked.

Do not adjust steering wheel unless vehicle is stationary.

Steering wheel controls

The Infotainment system can be operated by the controls on the steering wheel.

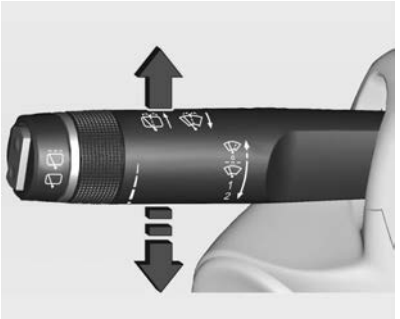
For further information see the Infotainment System Handbook.

Horn

Press .

Windscreen wiper/washer

Windscreen wiper



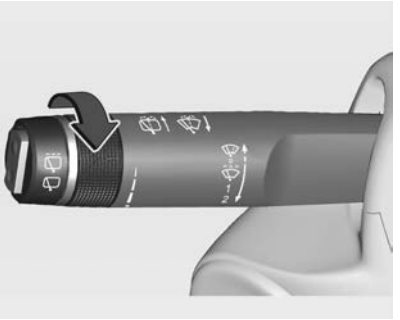
2 = fast
1 = slow
= timed interval wiping
O = off

For a single swipe when the windscreen wipers are off, push the lever up.

Do not use if the windscreen is frozen.

Switch off in car washes.

Adjustable wiper interval



Wiper lever in position .

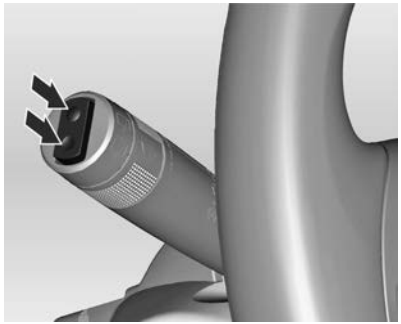
Turn the adjuster wheel to adjust the desired wipe interval:

short interval = turn adjuster wheel downwards
long interval = turn adjuster wheel upwards

Windscreen washer

Pull lever. Washer fluid is sprayed onto the windscreen and the wiper swipes for a few strokes.

Rear window wiper/washer



Press the rocker switch to activate the rear window wiper:

upper position	=	intermittent operation
lower position	=	continuous operation
middle position	=	off

Push lever. Washer fluid is sprayed onto the rear window and the wiper wipes a few times.

Do not use if the rear window is frozen.

Switch off in car washes.

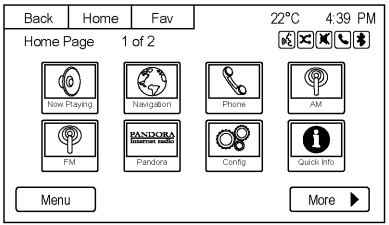
The rear window wiper comes on automatically when the windscreen wiper is switched on and reverse gear is engaged.

Activation or deactivation of this function can be changed in the menu **Vehicle Settings** in the Info-Display.

Vehicle personalisation ⇨ 75.

The rear window washer system is deactivated when the fluid level is low.

Outside temperature



A drop in temperature is indicated immediately and a rise in temperature after a time delay.

If outside temperature drops to 3 °C, the symbol illuminates in the Info-Display as a warning for icy road conditions. remains illuminated until temperatures reach at least 5 °C.

Additionally a warning message may be displayed in the Driver Information Centre.

⚠Warning

The road surface may already be icy even though the display indicates a few degrees above 3 °C.

Clock

Date and time are shown in the Info-Display.

Colour-Info-Display

Set date and time

To set the time:

1. Press **CLOCK**, then rotate and press **MENU SEL** to select **SET TIME**.
2. Select between hours and minutes by pressing the **MENU SEL** knob.
3. Use the **MENU SEL** knob to adjust the Hours and Minutes to decrease and increase the time.
4. Press **BACK** to exit.

To select 12 / 24 hours format:

1. Rotate and press **MENU SEL** to select **12hr / 24hr** format.
2. Rotate and press **MENU SEL** to select either 12 hour or 24 hour.

   A tick indicates the selected format.
3. Press **BACK** to exit.

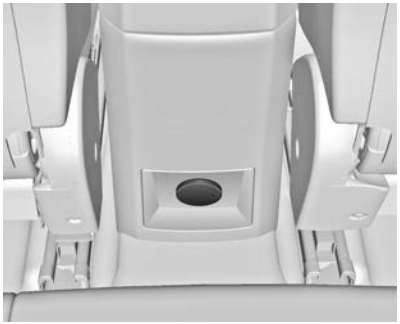
To set the date:

1. Press **CLOCK**, then rotate and press **MENU SEL** to select **SET DATE**.
2. Select between year, month and day by pressing the **MENU SEL** knob.
3. Use the **MENU SEL** knob to adjust the year, month and day.
4. Press **BACK** to exit.

Vehicle personalisation ⇨ 75.

Power outlets

(If fitted)



12V power outlets are located in the front and rear floor console.

Do not exceed the maximum power consumption of 120 watts.

With ignition off the power outlets are deactivated. Additionally the power outlets are deactivated in case of low battery voltage.

Do not connect any current-delivering accessories, e.g. electrical charging devices or batteries.

Do not damage the sockets by using unsuitable plugs.

Warning lights, gauges and indicators

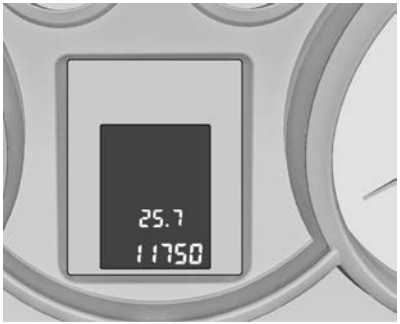
Speedometer

Indicates vehicle speed.

Note

When driving in the speed limited zones, such as child-safety zones, please keep the speed limits.

Odometer



The bottom line displays the recorded distance.

Different displays are used depending on the model.

Trip odometer

The top line displays the recorded distance since the last reset.

When kilometres are selected as unit in the **Vehicle Information Menu**, the maximum value is **1999.9**. When the recorded distance reaches **2000**, trip odometer automatically shows **0** without resetting.

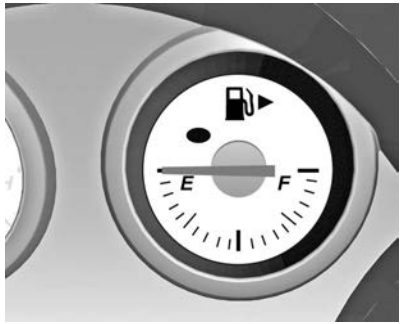
Tachometer

Displays the engine revolutions per minute.

Drive in a low engine speed range for each gear as much as possible.

Caution
If the needle is in the red warning zone, the maximum permitted engine speed is exceeded. Engine is at risk.

Fuel gauge



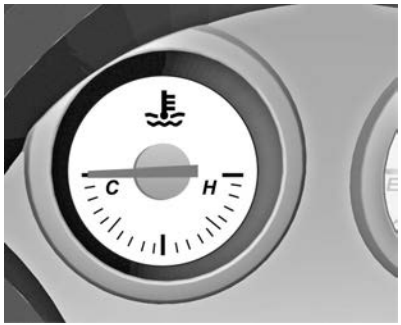
Displays the fuel level in the tank.

Control indicator ⬬ illuminates if the level in the tank is low. Refuel immediately.

Never run the tank dry.

Because of the fuel remaining in the tank, the top-up quantity may be less than the specified tank capacity.

Engine coolant temperature gauge



Displays the coolant temperature.

left area	=	engine operating temperature not yet reached
central area	=	normal operating temperature
right area	=	temperature too high

Caution

Do not continue driving with the temperature gauge needle in the right area. The engine is too hot. Continued operation of an overheated engine will result in severe engine damage.

Service display

Engine oil life system for diesel engines

When to change engine oil

This vehicle has a computer system that indicates when to change the engine oil and filter. This is based on engine revolutions and engine temperature, and not on kilometres. Based on driving conditions, the kilometres at which an oil change is indicated can vary considerably.

For the oil life system to work properly, the system must be reset every time the oil is changed. When the system has calculated that oil life has been diminished, it indicates that an oil change is necessary. **CodE 82** or **Change Engine Oil Soon** appears in the Driver Information Centre. Change the oil as soon as possible within the next 1000 km.

It is possible that, if driving under the best conditions, the oil life system might indicate that an oil change is not necessary for up to a year. The engine oil and filter must be changed at least once a year and, at this time, the system must be reset. Your dealer has trained service people who can perform this work and reset the system.

It is also important to check the oil regularly over the course of an oil drain interval and keep it at the proper level. If the system is ever reset accidentally, the oil must be changed at 5000 km since the last oil change.

Display of remaining engine oil life

The remaining engine oil life duration is displayed in the Driver Information Centre by the control indicator, followed by a percent value which shows the remaining engine oil life. For this purpose the ignition has to be switched on without engine running.

Driver Information Centre ⇨ 70.

Service Information ⇨ 160.

Control indicators

The control indicators described are not present in all vehicles. The description applies to all instrument versions. Depending on the equipment, the position of the control indicators may vary. Different displays are used depending on model. When the ignition is switched on, most control indicators will illuminate briefly as a functionality test.

The control indicator colours mean:

red	=	danger, important reminder
yellow	=	warning, information, fault
green	=	confirmation of activation
blue	=	confirmation of activation
white	=	confirmation of activation

Control indicators in the instrument

Turn signal

⇦⇨ illuminates or flashes green.

Flashes

The control indicator flashes if a turn signal or the hazard warning flashers are activated.

Fast flashing: failure of a turn signal light or associated fuse.

Bulb replacement ⇨ 128. Fuses ⇨ 137.

Turn signals ⇨ 80.

Seat belt reminder

Seat belt reminder on front seats

for driver's seat illuminates or flashes red.

²⁾ for front passenger seat illuminates or flashes red, when seat is occupied.

Illuminates

After the ignition is switched on. Illuminates for 100 seconds after starting the engine or reaching a specific distance or speed, or until the seat belt is fastened.

Flashes

Flashes for 100 seconds after starting the engine or reaching a specific distance or speed, or until the seat belt is fastened.

Fastening the seat belt ⇨ 39.

Airbag and belt tensioners

illuminates red.

When the ignition is switched on, the control indicator illuminates for about 4 seconds. If it does not illuminate, does not go out after 4 seconds or illuminates whilst driving, there is a fault in the belt tensioner or in the airbag system. The systems may fail to trigger in the event of an accident.

Deployment of the belt tensioners or airbags is indicated by continuous illumination of .

⚠Warning

Have the cause of the fault remedied immediately by your Holden Dealer.

Airbag system, belt tensioners ⇨ 40, ⇨ 37.

Charging system

illuminates or flashes red.

Illuminates for a few seconds after the ignition is switched on.

Illuminates when the engine is running

Stop, switch off engine. Battery is not charging. Engine cooling may be interrupted. In diesel engines, power to the brake servo unit may be cut. Seek the assistance of your Holden Dealer.

Malfunction indicator light

illuminates or flashes yellow.

It illuminates when the ignition is switched on and goes out shortly after the engine starts.

If illuminates while driving, there may be a malfunction in the emission monitoring system. Contact a Holden Dealer.

Service vehicle soon

illuminates.

It illuminates in combination with a warning code.

Vehicle messages ⇨ 72.

Brake and clutch system

BRAKE illuminates red.

Illuminates when the parking brake is actuated if the brake/clutch fluid level is too low or if there is a brake system fault ⇨ 127.

⚠Warning

Stop. Do not continue your journey. Contact your Holden Dealer.

Illuminates after the ignition is switched on if the manual parking brake is applied ⇨ 102.

Antilock brake system (ABS)

ABS illuminates yellow.

Illuminates for a few seconds after the ignition is switched on. The system is ready for operation when the control indicator goes out.

If the control indicator does not go out after a few seconds, or if it illuminates while driving, there is a fault in the ABS. The brake system remains operational but without ABS regulation.

Antilock brake system ⇨ 101.

Power steering

! illuminates yellow.

Illuminates with power steering reduced

Power steering is reduced due to overheating of the system. Control indicator goes out when the system has cooled down.

Illuminates with power steering disabled

Failure in the power steering system. Contact your Holden Dealer.

Illuminates after interruption of power supply

The steering angle sensor must be calibrated to make the power steering system operational.

- For automatic calibration drive in straight line at constant slow speed until the control indicator goes out.
- If the control indicator remains illuminated, turn the steering wheel from limit position to limit position for manual calibration.

The control indicator goes out when the system is operational again.

Ultrasonic parking assist

(If fitted)

P illuminates yellow.

Illuminates for a few seconds after the ignition is switched on.

If the control indicator does not go out after a few seconds, or if it illuminates while driving, there is a fault in the system

or

Fault due to sensors that are dirty or covered by ice or snow

or

Interference due to external sources of ultra sound. Once the source of interference is removed, the system will operate normally.

Have the cause of the fault in the system remedied by your Holden Dealer.

Ultrasonic parking sensors ⇨ 106.

Electronic Stability Control

illuminates or flashes yellow.

Illuminates for a few seconds after the ignition is switched on.

Illuminates

A fault in the system is present. Continued driving is possible. Driving stability, however, may deteriorate depending on road surface conditions.

Have the cause of the fault remedied by your Holden Dealer.

Flashes

The system is active. Engine output may be reduced and the vehicle may be braked automatically to a small degree.

Electronic Stability Control off

illuminates yellow.

Illuminates for a few seconds after the ignition is switched on.

Illuminates when the system is deactivated.

Traction Control system off

illuminates yellow.

Illuminates for a few seconds after the ignition is switched on.

Illuminates when the system is deactivated.

Preheating

(If fitted)

illuminates yellow.

Illuminates for a few seconds after the ignition is switched on.

Illuminates when preheating is activated. Only activates when outside temperature is low.

Diesel particle filter

(If fitted)

illuminates or flashes yellow.

Illuminates for a few seconds after the ignition is switched on.

The diesel particle filter requires cleaning.

Continue driving until goes off. If possible do not allow engine speed to drop below 2000 rpm until goes off.

Illuminates

The diesel particle filter requires cleaning. Start cleaning process as soon as possible.

Flashes

The diesel particle filter is full. Start cleaning process immediately to avoid damage to the engine.

Diesel particle filter ⇨ 95.

Engine oil pressure

illuminates red.

Illuminates for a few seconds after the ignition is switched on.

Illuminates when the engine is running

Caution

Engine lubrication may be interrupted. This may result in damage to the engine and/or locking of the drive wheels.

1. Depress clutch.
2. Select neutral gear, set shift lever to **N**.
3. Move out of the flow of traffic as quickly as possible without impeding other vehicles.
4. Switch off ignition.

⚠Warning

When the engine is off, considerably more force is needed to brake and steer.

Do not remove key until vehicle has come to a standstill, otherwise the steering column lock could engage unexpectedly.

Check oil level before seeking assistance of your Holden Dealer ⇨ 124.

Low fuel

illuminates yellow.

Illuminates when level in fuel tank is too low.

Catalytic converter ⇨ 96.

Bleeding the diesel fuel system ⇨ 128.

Immobiliser

illuminates or continously flashes yellow.

Illuminates for a few seconds after the ignition is switched on.

Fault in the electronic immobiliser system. The engine cannot be started.

Have the cause of the fault remedied by your Holden Dealer.

Apply footbrake

Press Brake to Start Engine is displayed on the DIC.

Displayed when brake or clutch pedal needs to be depressed to start vehicles with electronic key system ⇨ 20.

Exterior light

illuminates green.

Illuminates when the parking lights are on ⇨ 78.

High beam

illuminates blue.

Illuminates when high beam is on and during headlight flash ⇨ 79.

Fog light

(If fitted)

illuminates green.

Illuminates when the front fog lights are on ⇨ 80.

Cruise control

illuminates white or green.

Illuminates white

The system is on.

Illuminates green

A certain speed is stored.

Cruise control ⇨ 104

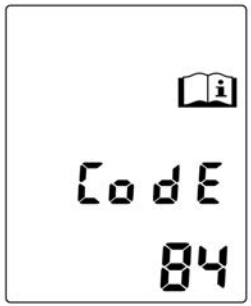
Door open

illuminates red or white.

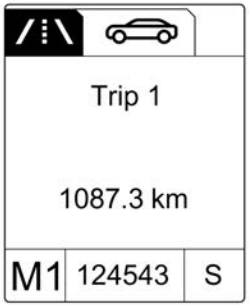
It illuminates when a door or the boot lid is open.

Information displays

Driver Information Center



The Driver Information Centre (DIC) is located in the instrument cluster between speedometer and tachometer.



Different displays are used depending on model.

Selecting functions

The menus and functions can be selected by the buttons on the turn signal lever.

Press the **MENU** button to switch between the menus.

The menu is locked when vehicle is moving.

The following menus can be selected:

- **Vehicle Information**
- **Trip/Fuel Information**

Depending on model, the menus can be selected by symbols in the top line of the display:

- **Vehicle Information**
- **Trip/Fuel Information**

Turn the adjuster wheel to scroll through a menu option or to set a numeric value.

Press the **SET/CLR** button to select a function or to confirm a message.

Vehicle personalisation ⇨ 75.

Trip computer ⇨ 74.

Colour-Info-Display

The vehicle has a Colour-Info-Display. The Display is located in the instrument panel above the faceplate of the Infotainment system.

Note
The Colour-Info-Display is a touchscreen.

System Settings, Personalisation ⇨ 75.

The Colour-Info-Display indicates:

- time ⇨ 60
- outside temperature ⇨ 60
- date ⇨ 60
- Infotainment system, see the Infotainment system handbook

- navigation (if fitted), see the Infotainment system handbook
- system settings
- settings for vehicle personalisation ⇨ 75

The type of information and how it is displayed depend on the equipment of the vehicle and the settings made.

Selecting menus and settings

Rotate the **MENU SEL** button to scroll through the available setup options, press the **MENU SEL** button to select. Alternatively select by touching the touchscreen.

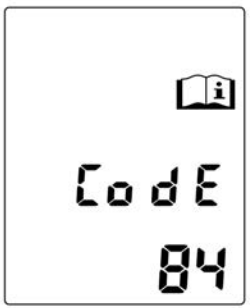
To exit a menu, press **BACK**.

Vehicle messages

Messages are given via the Driver Information Centre (DIC), the Info-Display or as warning and signal buzzers. Confirm warning messages with the **SET/CLR** button on the turn signal lever.

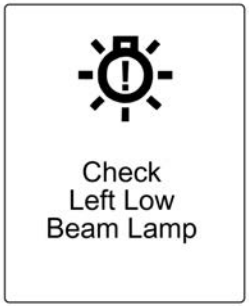
If necessary seek the assistance of your Holden Dealer.

Vehicle messages on the display



Depending on the model the vehicle messages are displayed as code numbers.

No.	Vehicle message
25	Left front turn indicator failure
26	Left rear turn indicator failure
27	Right front turn indicator failure
28	Right rear turn indicator failure
35	Replace battery in radio remote control
54	Water in diesel fuel filter
55	Diesel particle filter is full ⇨ 95
75	Service air conditioner
79	Top up engine oil ⇨ 124
82	Change engine oil soon ⇨ 160
84	Engine power is reduced
89	Service vehicle soon
95	Service airbag



Depending on the model, the vehicle messages may be displayed as text. Follow the instructions given in the messages.

The system displays messages regarding the following topics:

- Fluid levels
- Anti-theft alarm system
- Brakes
- Drive systems
- Ride control systems
- Cruise control
- Object detection systems
- Lighting, bulb replacement
- Wiper/washer system
- Doors, windows
- Remote control
- Seat belts
- Airbag systems
- Engine and transmission
- Diesel particle filter
- Battery
- Electronic key system

The vehicle message **No Remote Detected** is displayed when the electronic key system does not detect the presence of the electronic key to start the vehicle.

Warning chimes

When starting the engine or whilst driving

- If seat belt is not fastened.
- If a door or the boot lid is not fully closed when starting off.
- If a certain speed is exceeded with parking brake applied.
- If a warning code appears in the Driver Information Centre.
- If the parking assist detects an object (If fitted).

When the vehicle is parked and/or the driver's door is opened

- When the key is in the ignition switch.
- With parking lights on.

Trip computer

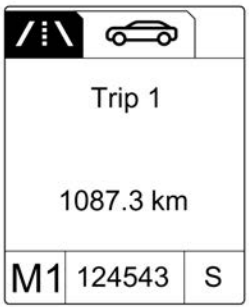
The menus and functions can be selected with the turn signal lever.

Turn the adjuster wheel to select one of the submenus:

- Trip meter
- Average consumption
- Range
- Average speed
- Instantaneous consumption
- Speed

Trip meter

Different displays are used depending on model.



To reset, press the **SET/CLR** button for a few seconds.

Average consumption

Display of average consumption. The measurement can be reset at any time.

To reset, press the **SET/CLR** button for a few seconds.

Range

Range is calculated from current fuel tank content and current consumption. The display shows average values.

After refuelling, the range is updated automatically after a brief delay.

When the fuel level in the tank is low the indicator ⬬ in the fuel gauge illuminates.

Average speed

Display of average speed. The measurement can be reset at any time.

To reset, press the **SET/CLR** button for a few seconds.

Instantaneous consumption

Display of the instantaneous consumption is displayed while the vehicle is moving.

Vehicle personalisation

The vehicle's parameters can be personalised by changing the settings in the Driver Information Centre and in the Info-Display.

Depending on vehicle equipment some of the functions described below might not be available.

Note

The Info-Display and the Driver Information Centre are both locked, when the vehicle is moving.

Settings in the Driver Information Centre

The vehicle may have **Unit** settings that can be selected by the **MENU** button on the turn signal lever.

Press the **MENU** button to select the menu **Unit**.

The **Unit** settings menu is displayed.

Different displays are used depending on model.

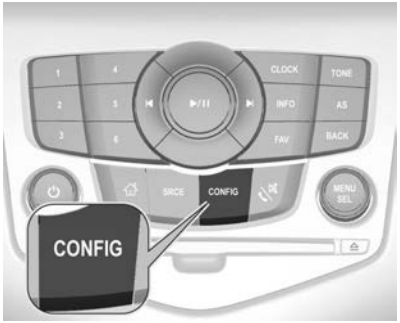
Press the **SET/CLR** button to select the unit setting mode.

- 1 - Imperial A
- 2 - Imperial B
- 3 - Metric

Turn the adjuster wheel ⇳ to select **3** (Metric). Press the **SET/CLR** button to confirm.

Settings in the Colour-Info-Display

Depending on the Infotainment system, the **CONFIG** button is located in different locations.



The following settings can be selected by pressing **CONFIG**, then scrolling through the setup options by rotating the **MENU SEL** knob and pressing **MENU SEL** to select.

Alternatively select by touching the touchscreen.

- **Languages**
- **Time & Date**
- **Radio**
- **Phone**
- **Navigation (if fitted)**
- **Display**
- **Vehicle**

In the corresponding submenus the following settings can be changed by rotating and pressing the **MENU SEL** knob:

Languages
Only English is available.

Time and Date
Clock ⇨ 60.

Radio Settings
See Infotainment system handbook.

Phone Settings
See Infotainment system handbook.

Navigation Settings (if fitted)
See Infotainment system handbook.

Display Settings
Selectable display settings:

- **Home Page Menu**: See Infotainment system handbook.
- **Rear Camera Option** (if fitted): The rear view camera can be switched on and off. The warning symbols can also be switched on and off.

- **Display Off**: Switches off the display. Press any button to switch back on.
- **Map Display** (if fitted): Select optimisation for daylight, darkness, or automatic depending on ambient lighting conditions.
- **Speed Limits** (if fitted): Select to display speed limits on the map when available.

Vehicle Settings

- **Climate and Air Quality**

  Auto fan speed: Change the default fan speed when in Auto mode (high, medium or low).

  Auto rear defog: Automatic activation of rear heated window.

- **Comfort & Convenience**

  Chime volume: Change the volume of warning chimes.

  Button Chime: Select to activate audible touchscreen button press feedback.

  Rear auto wipe in reverse gear (if fitted): Activate or deactivate automatically switching on of the rear window wiper when reverse gear is engaged.

- **Collision Detection Systems**

  Park assist: Activate or deactivate the ultrasonic parking assist.

- **Lighting**

  Vehicle Locator Lights: Activate or deactivate the welcome lighting.

  Exit Lighting: Activate or deactivate and change the duration of exit lighting.

- **Power Door Locks**

  Open Door Anti Lock Out: Activate or deactivate the automatic door locking function while a door is open.

  Auto Door Lock: Activate or deactivate the automatic door locking function, to occur after driving off.

  Auto Door Unlock: Activate or deactivate the automatic door unlocking function after switching off ignition.

- **Remote Lock / Unlock / Start**

  Remote Unlock Feedback: Activate or deactivate flashing the lights whilst unlocking.

  Remote Lock Feedback: Activate or deactivate the lights and horn feedback whilst locking.

  Remote Door Unlock: Change the configuration to unlock only the driver’s door or the whole vehicle whilst unlocking.

  Passive Door Unlock: Change the configuration to unlock only the driver’s door or the whole vehicle whilst unlocking with the Electronic key system and pressing the door button.

  Remote Left in Vehicle Reminder: Activate or deactivate the reminder chimes for left remote control in vehicle (Electronic key system).

- **Return To Factory Settings?**

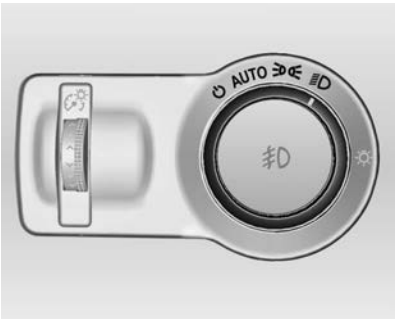
  Return To Factory Settings: Reset all settings to the default settings.

Lighting

Exterior lighting 78
Interior lighting 81
Lighting features 82

Exterior lighting

Light switch



Turn light switch:

AUTO = Automatic light control: Headlights are switched on and off automatically depending on external lighting conditions.

⏻ = Activation or deactivation of the automatic light control. Switch turns back to **AUTO**.

≡D = Parking lights

≡D = Headlights and parking lights

When switching on ignition, automatic light control is always active.

When lights are on, ≡D lights up. Control indicator ≡D ⇨ 70.

Automatic light control

Automatic light control function

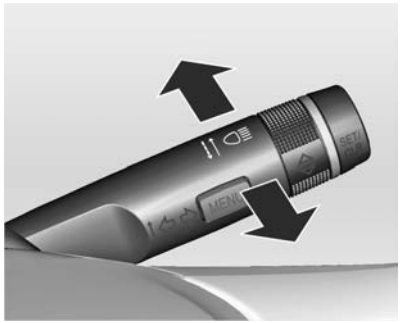
When the automatic light control function is switched on and the engine is running, the system switches the headlights and taillights on and off according to ambient light conditions.

Automatic headlight activation

During poor lighting conditions the headlights and taillights are switched on.

Furthermore the headlights are switched on if the windscreen wipers have been activated for several wipes.

High beam



To switch from low to high beam, push lever.

To switch to low beam, push lever again or pull.

⚠Warning

Always switch the high beam headlamps to low beam when you approach oncoming vehicles or when other vehicles ahead. High beam headlamps can temporarily blind other drivers, which could result in a collision.

Headlight flash

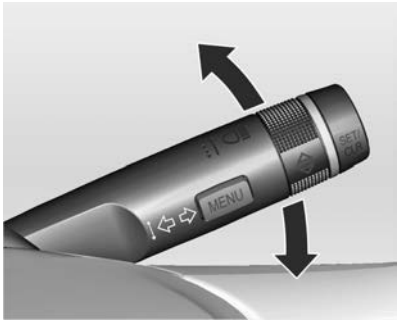
To activate the headlight flash, pull lever.

Hazard warning flashers

Operated with the ⚠ button.

The hazard warning flashers activate automatically if the airbags deploy.

Turn and lane-change signals



lever up = left indicator
lever down = right indicator

If the lever is moved past the resistance point, the indicator is switched on constantly. When the steering wheel moves back, the indicator is automatically deactivated.

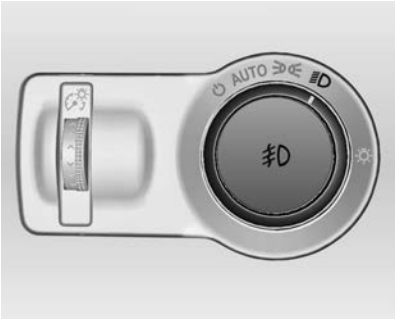
For three flashes, e.g. when changing lanes, press the lever until resistance is felt and then release.

Move the lever to the resistance point and hold for longer indication.

Switch the indicator off manually by moving the lever to its original position.

Front fog lights

(If fitted)



Operated with the ≠D button.

Reversing lights

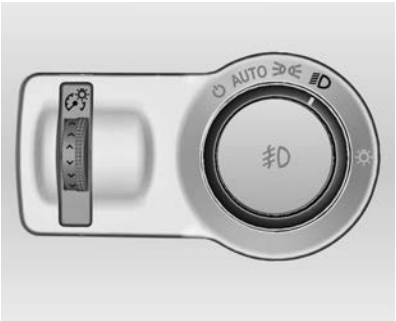
The reversing lights come on when the ignition is on and reverse gear is selected.

Misted light covers

The inside of the light housing may mist up briefly in poor, wet and cold weather conditions, in heavy rain or after washing. The mist disappears quickly by itself; to help switch on the headlights.

Interior lighting

Instrument panel illumination control



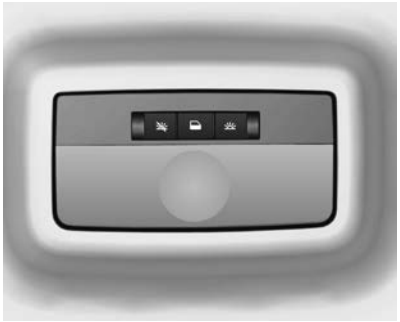
Brightness of the following lights can be adjusted when the exterior lights are on:

- Instrument panel illumination
- Steering wheel controls
- Info-Display
- Climate control operation elements
- Illuminated switches

Turn knob and hold until the desired brightness is obtained.

Interior lights

Courtesy light



During entry and exit of the vehicle, the courtesy lights automatically switch on and then off after a delay. It switches on for a short time even if the key is withdrawn from the ignition lock.

Operate rocker switch:

	=	automatic switching on and off
press	=	always on
press	=	always off

Reading lights

Operated with and buttons.

Lighting features

Entry lighting

Welcome lighting

Headlights, tail lights and interior lights illuminate for a short time when unlocking the vehicle with the remote control. This function facilitates retrieving the vehicle when it is dark.

The lighting switches off immediately when the ignition is turned to the accessory position.

Activation or deactivation of this function can be changed in the menu **Vehicle Settings** in the Info-Display. Vehicle personalisation ⇨ 75.

Entrance lighting

The following lights will additionally illuminate when driver`s door is opened:

- All switches
- Driver Information Centre
- Some interior lights

Exit lighting

Headlights and tail lights illuminate the way for an adjustable time after leaving the vehicle.

Activation, deactivation and duration of lighting of this function can be changed in the menu **Vehicle Settings** in the Info-Display. Vehicle personalisation ⇨ 75.

Battery discharge protection

Switching off electric lights

To prevent discharge of the battery when the ignition is switched off, some interior lights are switched off automatically after some time.

Climate control

Climate control systems 83
Air vents 89
Maintenance 90

Climate control systems

Air conditioning system

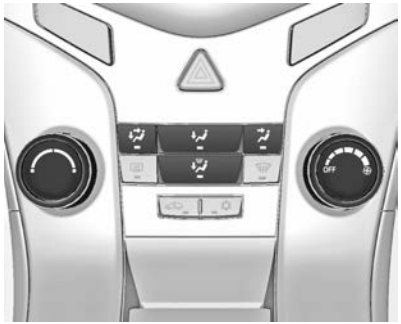
(If fitted)

Controls for:

- Temperature
- Air distribution
- Fan speed
- Demisting and defrosting
- Air recirculation
- Cooling
- Heated rear window

⚠Danger

Do not sleep in a vehicle with the air conditioning or heating system on. It may cause serious harm or death due to a drop in the oxygen level and/or body temperature.



Temperature

Adjust the temperature by turning the knob.

red = warm
blue = cold

Heating will not be fully effective until the engine has reached its operating temperature.

Air distribution

Select air outlet by pushing buttons.

- = to head area and footwell
- = to footwell
- = to head area via adjustable air vents
- = to windscreen and footwell

Fan speed

Adjust the air flow by switching the fan to the desired speed.

Air conditioning

Operated with the button and is functional only when the engine and fan are running.

The air conditioning system cools and dehumidifies (dries) the interior of the vehicle. Therefore condensation may form and drip from under the vehicle.

If cooling or drying is not required, switch the air conditioning system off to save fuel.

Note

When switching the air conditioning system on/off using the air conditioning button, the Info-Display will show **on** or **off**.

Air recirculation system

The air recirculation mode is operated with the button.

⚠Warning

Driving with recirculation mode for prolonged period of time can make you sleepy. Periodically turn to the outside air mode for fresh air.

The exchange of fresh air is reduced in air recirculation mode. In operation without cooling the air humidity increases, so the windows may mist up. The quality of the passenger compartment air deteriorates, which may cause the vehicle occupants to feel drowsy.

Demisting and defrosting the windows

Adjust the air flow by switching the fan to the desired speed.

- Push button : the air distribution is directed automatically to the windscreen.
- Set temperature control to warmest level.
- Switch on heated rear window .
- Open side air vents as required and direct them towards the door windows.

Note
When demist button is selected, the air conditioning is automatically switched on, but the air conditioning switch will not illuminate.

Heated rear window ⇨ 32.

Maximum cooling

Adjust the air flow by switching the fan to the desired speed.

Briefly open the windows so that hot air can disperse quickly.

- Switch on air conditioning .
- Switch on air recirculation system .
- Push air distribution switch .
- Set temperature control to coldest level.
- Set fan speed to highest level.
- Open all vents.

Indication of settings

(Info-Display)

Each change of settings is indicated in the Info-Display for a few seconds.

Selected functions are indicated by the LED of the activated button.

Note
The Info-Display will also show **on** or **off** when switching the air conditioning on/off via the air conditioning switch.

Electronic climate control system

(If fitted)

⚠Danger

Do not sleep in a vehicle with the air conditioning or heating system on. It may cause serious harm or death due to a drop in the oxygen level and/or body temperature.

Controls for automatic mode:

AUTO = automatic mode, all settings except temperature are choosen automatically by the system

Temperature = preselection of the desired temperature

The following functions can be adapted manually, disabling automatic mode:

Fan speed = selectable air flow

MODE = selectable air distribution

= demisting and defrosting

= switching system on or off

= switching cooling on or off

= air recirculation

AQS = air quality sensor

Heated rear window ⇨ 32.

The preselected temperature is automatically regulated. In the automatic mode the fan speed and air distribution automatically regulate the air flow.

The system can be manually adapted by use of air distribution and fan speed controls.

Each change of settings is indicated in the Info-Display for a few seconds.

Activated functions are indicated by the LED in the button.

The electronic climate control system is only fully operational when the engine is running.

Automatic mode AUTO

Basic setting for maximum comfort:

- Press **AUTO** button, the air conditioning is activated automatically.
- Open all air vents.
- Set pre-selected temperature using left rotary knob.

The fan speed regulation in automatic mode can be changed in the menu **Vehicle settings/Climate and air quality**.

Vehicle personalisation ⇨ 75

Air distribution is selected automatically in automatic mode. The air vents should therefore always be open.

Temperature preselection

Set temperature to the desired value by turning the knob.

red = warm
blue = cold

If the minimum temperature is set, the climate control system runs at maximum cooling.

If the maximum temperature is set, the climate control system runs at maximum heating.

Demisting and defrosting the windows

- Press button .
- Temperature and air distribution are set automatically and the fan runs to higher speed.
- To return to automatic mode: press button .

Switch on heated rear window .

Heated rear window ⇨ 32.

Manual settings

Climate control system settings can be changed by activating the buttons and rotary knobs as follows. Changing a setting will deactivate the automatic mode.

Fan speed

Turn right rotary knob. The selected fan speed is indicated by the number in the display.

To return to automatic mode: Press **AUTO** button.

Air distribution MODE

Press **MODE** button once or repeatedly for desired adjustment. The setting of air distribution is indicated on the Info-Display.

- = to windscreen, head area and foot well
- = to windscreen and foot well
- = to foot well
- = to head area via adjustable air vents
- = to head area via adjustable air vents and foot well

Return to automatic air distribution: Deactive corresponding setting or press button **AUTO**.

Cooling

Activate or deactivate with the button.

The air conditioning system cools and dehumidifies (dries) the interior of the vehicle. Therefore condensation may form and drip from under the vehicle.

If cooling or drying is not required, switch the air conditioning system off to save fuel.

Note
When switching the air conditioning system on/off using the air conditioning button, the Info-Display will show **on** or **off**.

Manual air recirculation mode

The manual air recirculation mode is operated with the button.

⚠Warning

The exchange of fresh air is reduced in air recirculation mode. In operation without cooling the air humidity increases, so the windows may mist up. The quality of the passenger compartment air deteriorates, which may cause the vehicle occupants to feel drowsy.

Air quality sensor AQS

(If fitted)

The air quality sensor detects poor quality ambient and switches automatically to internal air.

System switching on or off ⏻

Pushing button ⏻ switches all functions of heating, ventilation and cooling system on or off.

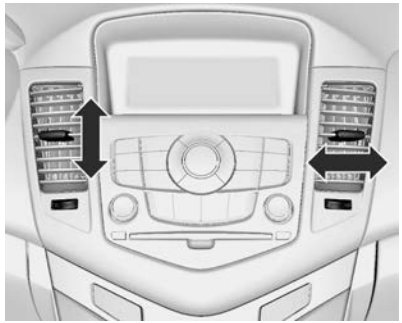
Basic settings

Some settings can be changed in the menu **Vehicle settings/Climate and air quality** in the Info-Display. Vehicle personalisation ⇨ 75.

Air vents

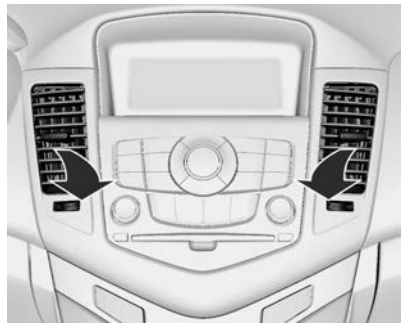
Adjustable air vents

At least one air vent must be open while cooling is on in order to prevent the evaporator from icing up due to lack of air movement.



To open vent, turn the adjuster wheel to ⦚.

Direct the flow of air by tilting and swivelling the slats.



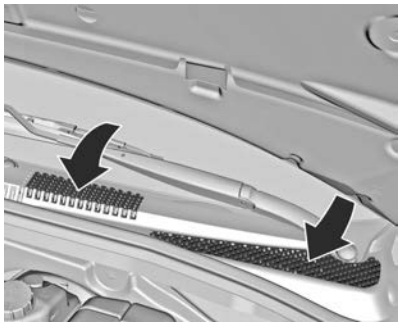
To close the vent, turn the adjuster wheel fully to the left.

Fixed air vents

Additional air vents are located beneath the windscreen and door windows and in the footwells.

Maintenance

Air intake



The air intake in front of the windscreen in the engine compartment must be kept clear to allow air intake. Remove any leaves, dirt or snow.

Pollen filter

Manual controlled pollen filter

The filter cleans dust, soot, pollen, spore and smell (combi filter) from the air entering the vehicle through the air intake.

Air conditioning regular operation

In order to ensure continuously efficient performance, cooling must be operated for a few minutes once a month, irrespective of the weather and time of year. Operation with cooling may not be possible when outside temperature is low.

Service

For optimal cooling performance, it is recommended to have the climate control system checked annually by your Holden Dealer.

- Functionality and pressure test
- Heating functionality
- Leakage check

- Check of drive belts
- Cleaning of condenser and evaporator drainage
- Performance check

Driving and operating

Driving hints 92
Starting and operating 92
Engine exhaust 95
Automatic transmission 97
Manual transmission 101
Brakes 101
Ride control systems 103
Cruise control 104
Object detection systems 106
Fuel 109
Trailer hitch 111

Driving hints

Control of the vehicle

Never coast with engine not running

⚠ Danger

Many systems will not function in this situation (e.g. brake servo unit, power steering). Driving in this manner is a danger to yourself and others.

Pedals

To ensure the pedal travel is uninhibited, there must be no mats in the area of the pedals.

Starting and operating

New vehicle running-in

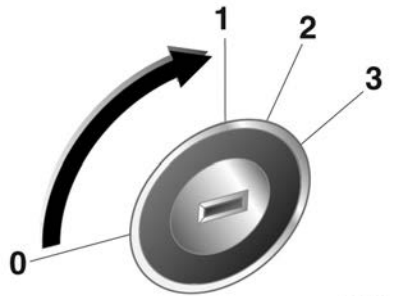
Use the following precautions for the first few hundred kilometres to improve the performance and economy of your vehicle and add to its long life:

- Avoid full-throttle starts.
- Do not race the engine.
- Avoid hard stops except in emergencies. This will allow your brakes to bed in properly.
- Avoid quick starts, sudden accelerations, and prolonged high-speed driving in order to avoid damage to the engine and to conserve fuel.
- Avoid full-throttle acceleration in low gear.
- Do not tow any other vehicle.

During the running-in period fuel and engine oil consumption may be higher and the cleaning process of the diesel particle filter may take place more often.

Diesel particle filter ⇨ 95.

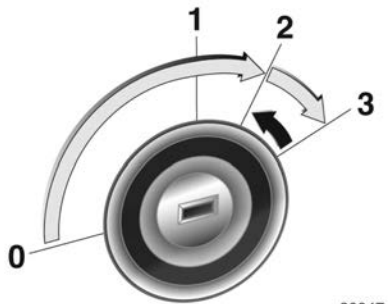
Ignition switch positions



0 = Ignition off
1 = Ignition off, steering wheel lock released
2 = Ignition on, diesel engine preheating
3 = Starting

Starting the engine

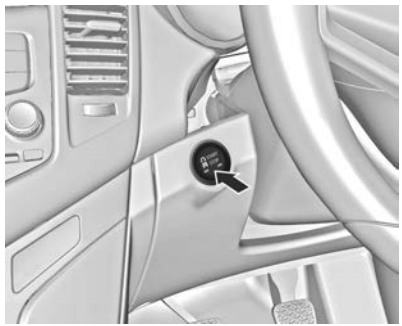
Starting engine with the ignition switch



- Turn the key to position **1**, move the steering wheel slightly to release the steering wheel lock
- Manual transmission: press and hold clutch pedal
- Automatic transmission: press and hold brake pedal and move shift lever to **P** or **N**
- Do not accelerate
- Diesel engine: turn the key to position **2** for preheating until control indicator ᔓ goes out
- Turn the key to position **3** and release when engine is running

Before restarting or to switch off the engine, turn key back to **0**.

Starting engine with the Start/Stop button



- The electronic key must be inside the vehicle
- Manual transmission: depress clutch and brake

- Automatic transmission: depress brake and move shift lever to **P** or **N**
- Do not accelerate
- Press the Start/Stop button. The green LED will illuminate

To switch off the engine, press the button again.

Switching off the engine

- Push **Start/Stop** button while engine is running and vehicle stationary to switch off the engine.
- In case of emergency the engine can be switched off while the vehicle is running: push **Start/Stop** button twice.

⚠Warning

When the engine is not running, considerably more force is needed to brake and steer.

Accessory power mode

Push **Start/Stop** button once without pressing clutch or brake pedal: **Accessory power mode** is active, the yellow LED in the button illuminates. In this mode steering wheel lock is released and some electrical functions are operable.

To start the engine from **Accessory power mode**, press clutch pedal (manual transmission) or brake pedal (automatic transmission) and push **Start/Stop** button once more.

Ignition on power mode

Push and hold **Start/Stop** button for 5 seconds without pressing clutch or brake pedal: **Ignition on power mode** is active, the green LED in the button illuminates. In this mode all electrical functions are operable and Diesel engine is preheating.

To start the engine from **Ignition on power mode**, press clutch pedal (manual transmission) or brake pedal (automatic transmission) and push **Start/Stop** button once more.

Note

Do not put the electronic key in the boot or in front of the Info-Display.

Electronic key manual override

If either the battery of the electronic key is weak or the radio remote control fails , the driver's door can be locked or unlocked with the mechanical key ⇨ 19.

The mechanical key can only lock or unlock the driver's door. Unlocking the entire vehicle ⇨ 21. On vehicles with anti-theft alarm system, the alarm may be triggered when the vehicle is unlocked. Deactivate the alarm by switching on the ignition.

Locate the small circular cover in the bottom of the cupholder in the centre console. Place the electronic key over the cover with the Holden Logo facing up.

Press the **Start/Stop** button.

To switch off the engine, press the **Start/Stop** button for at least 2 seconds.

Lock the driver's door with the mechanical key. Locking the entire vehicle ⇨ 21.

This option is intended for manual override when the battery of the electronic key is weak, the radio remote control fails or there is interference from external higher power radio waves. If the issue persists seek the assistance of your Holden Dealer.

Overrun cut-off

The fuel supply is automatically cut off during overrun, i.e. when the vehicle is driven with a gear engaged but accelerator is released.

Parking

- Do not park the vehicle on an easily ignitable surface. The high temperature of the exhaust system could ignite the surface.
- Always apply parking brake without pressing release button. Apply as firmly as possible on downhill or uphill slopes. Depress the footbrake at the same time to reduce operating force.
- Switch off the engine and ignition. Turn the steering wheel until the steering wheel lock engages.
- If the vehicle is on a level surface or uphill slope, engage first gear or set the shift lever to **P** before switching off the ignition. On an uphill slope, turn the front wheels away from the kerb.

  If the vehicle is on a downhill slope, engage reverse gear or set the shift lever to **P** before switching off the ignition. Turn the front wheels towards the kerb.
- Lock the vehicle.

Engine exhaust

⚠ Danger

Engine exhaust gases contain poisonous carbon monoxide, which is colourless and odourless and could be fatal if inhaled.

If exhaust gases enter the interior of the vehicle, open the windows. Have the cause of the fault rectified by your Holden Dealer.

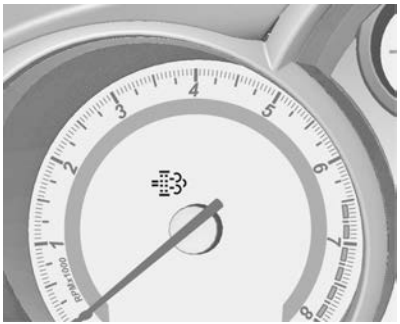
Avoid driving with an open boot lid, otherwise exhaust gases could enter the vehicle.

Diesel particle filter

(If fitted)

The diesel particle filter system filters harmful soot particles out of the exhaust gases. The system includes a self-cleaning function that runs automatically during driving without any notification. The filter is cleaned by periodically burning off the soot particles at high temperature. This

process takes place automatically under set driving conditions and may take up to 25 minutes. Typically it needs between 7 and 12 minutes. Fuel consumption may be higher during this period. The emission of smells and smoke during this process is normal.



Under certain driving conditions, e.g. short distances, the system cannot clean itself automatically.

If the cleaning of the filter is required and if previous driving conditions did not enable automatic cleaning, it will be indicated by the control indicator and **CodE 55** in the Driver Information Centre.

illuminates when diesel particle filter requires cleaning. Start cleaning process as soon as possible.

flashes when diesel particle filter is full. Start cleaning process immediately to avoid damage to the engine.

Cleaning process

To activate cleaning process, continue driving, keep engine speed above 2000 revolutions per minute. Shift down a gear if necessary. Diesel particle filter cleaning is then started.

If illuminates additionally, cleaning is not possible, seek the assistance of your Holden Dealer.

Caution
If the cleaning process is interrupted, there is a risk of provoking severe engine damage.

Cleaning takes place quickest at high engine speeds and loads.

Do not switch off the engine until the cleaning process is complete. The control indicator extinguishes as soon as the self-cleaning operation is complete.

Catalytic converter

The catalytic converter reduces the amount of harmful substances in the exhaust gas.

Caution
Fuel specifications other than those listed on pages ⇨ 109, ⇨ 169 could damage the catalytic converter or electronic components. Unburnt petrol will overheat and damage the catalytic converter. Therefore avoid excessive use of the starter, running the fuel tank dry and starting the engine by pushing or towing.

In the event of misfiring, uneven engine running, a reduction in engine performance or other unusual problems, have the cause of the fault rectified by your Holden Dealer as soon as possible. In an emergency, driving can be continued for a short period, keeping vehicle speed and engine speed low.

Automatic transmission

The automatic transmission permits manual gearshifting (manual mode) or automatic gearshifting (automatic mode).

Transmission display

The mode or selected gear is shown in the transmission display.

Different displays are used depending on model.

Selector lever

P = park position, wheels are locked, engage only when the vehicle is stationary and the parking brake is applied
R = reverse gear, engage only when vehicle is stationary
N = neutral
D = automatic mode with all gears.

The shift lever is locked in **P**. To move, switch on ignition, apply brake pedal and push release button.

To engage **P** or **R**, push the release button.

To start the engine, press the brake pedal in either **P** or **N** position.

Do not accelerate while engaging a gear. Never depress the accelerator pedal and brake pedal at the same time.

When a gear is engaged, the vehicle slowly begins to creep when the brake is released.

Engine braking

To utilise the engine braking effect, select a lower gear in good time when driving downhill.

Refer to manual mode ⇨ 99

Rocking the vehicle

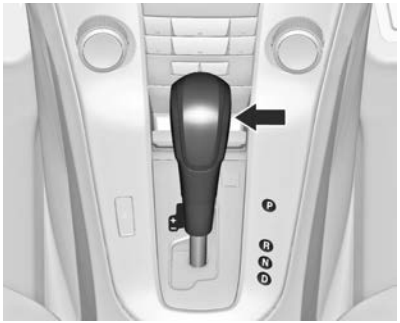
Rocking the vehicle is only permissible if the vehicle is stuck in sand, mud or snow. Move the shift lever between **D** and **R** in a repeat pattern. Do not race the engine and avoid sudden acceleration.

Parking

Apply the parking brake, engage **P** and remove ignition key.

Sport mode

(If fitted)



The sport mode can be selected where maximum responsiveness is required.

When operated in sport mode, the transmission will delay upshifts and allow earlier downshifts.

In addition, the transmission can sense enthusiastic driving, at which point it may delay upshifting and downshift earlier when braking. This is designed to maximise vehicle performance.

To activate sport mode:

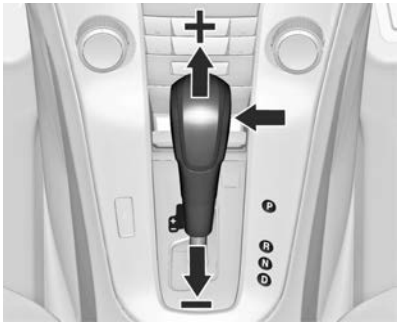
1. Move shift lever to position **D**.
2. Push the shift lever to the left.

   Sport Mode On will appear for 3 seconds in the Driver Information Centre.

   Do not move the shift lever to **+** or **-**, otherwise the manual mode will be enabled.
3. To return to normal mode, move the shift lever to the right, to position **D**.

   Sport Mode Off will appear for 3 seconds in the Driver Information Centre.

Manual mode



Move shift lever out of position **D** towards the left and then forwards or backwards.

+ = Shift to a higher gear.

− = Shift to a lower gear.

If a higher gear is selected when vehicle speed is too low, or a lower gear when vehicle speed is too high, the shift is not executed.

If engine speed is too low, the transmission automatically shifts to a lower gear above a specific vehicle speed.

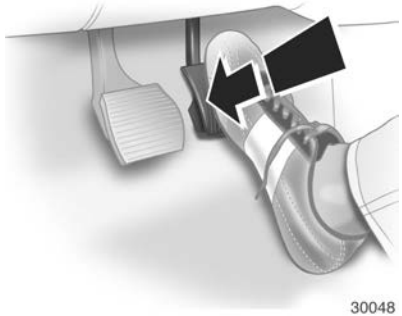
No automatic shifting to a higher gear takes place at high engine revolutions.

For reasons of safety, kickdown is also available in manual mode.

Electronic driving programmes

- Following a cold start, the operating temperature programme increases engine speed to quickly bring the catalytic converter to the required temperature.
- The automatic neutral shift function automatically shifts to idling when the vehicle is stopped with a forward gear engaged.

Kickdown



If the accelerator pedal is pressed past the pressure point, the transmission shifts to a lower gear depending on engine speed.

Fault

In the event of a fault, illuminates. Additionally a code number is displayed in the Driver Information Centre. Vehicle messages ⇨ 72.

The transmission no longer shifts automatically. Continued travel is possible with manual shifting.

Only the highest gear is available. Depending on the fault, 2nd gear may also be available in manual mode.

Have the cause of the fault remedied by your Holden Dealer.

Interruption of power supply

In the event of an interruption of power supply, the shift lever cannot be moved out of the **P** position. The ignition key cannot be moved out of the ignition lock.

If the battery is discharged, start the vehicle using jump leads ⇨ 154.

If the battery is not the cause of the fault, release shift lever and remove ignition key from ignition lock.

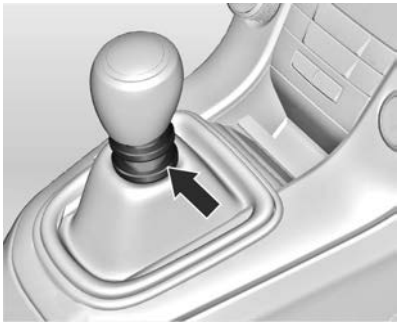
Release shift lever

1. Apply parking brake.

2. Open cover to the right of the shift lever.

3. Insert a screwdriver into the opening as far as it will go and move the shift lever out of **P**. If **P** is engaged again, the shift lever will be locked in position again. Have the cause of the power supply interruption remedied by your Holden Dealer.
4. Close cover.

Manual transmission



Reverse: when the vehicle is stationary, depress the clutch pedal and then pull up the ring on the shift lever and engage the gear.

If the gear does not engage, set the lever in neutral, release the clutch pedal and depress again; then repeat gear selection.

Do not grind the clutch unnecessarily.

When operating, depress the clutch pedal completely. Do not use the pedal as a foot rest.

Caution
It is not advisable to drive with your hand resting on the shift lever.

Brakes

The brake system comprises two independent brake circuits.

If a brake circuit fails, the vehicle can still be braked using the other brake circuit. However, braking effect is achieved only when the brake pedal is depressed firmly. Considerably more force is needed for this. The braking distance is extended. Seek the assistance of your Holden Dealer before continuing your journey.

When the engine is not running, the support of the brake servo unit disappears once the brake pedal has been depressed once or twice. Braking effect is not reduced, but braking requires significantly greater force. It is especially important to bear this in mind when being towed.

Control indicator ⓘ ⇨ 67.

Antilock brake system

Antilock brake system (ABS) prevents the wheels from locking.

ABS starts to regulate brake pressure as soon as a wheel shows a tendency to lock. The vehicle remains steerable, even during hard braking.

ABS control is made apparent through a pulse in the brake pedal and the noise of the regulation process.

For optimum braking, keep the brake pedal fully depressed throughout the braking process, despite the fact that the pedal is pulsating. Do not reduce the pressure on the pedal.

Control indicator (ABS) ⇨ 67.

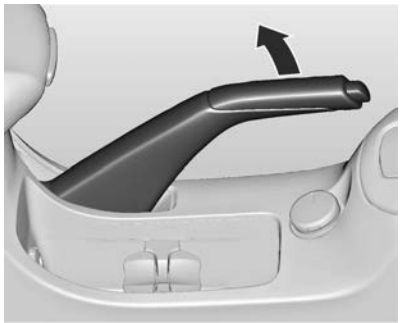
Fault

⚠Warning

If there is a fault in the ABS, the wheels may be liable to lock due to braking that is heavier than normal. The advantages of ABS are no longer available. During hard braking, the vehicle can no longer be steered and may swerve.

Have the cause of the fault remedied by your Holden Dealer.

Parking brake



Always apply parking brake firmly without operating the release button, and apply as firmly as possible on a downhill or uphill slope.

When applying the parking brake, depress the foot brake firmly at the same time.

To release the parking brake, pull the lever up slightly, press the release button and fully lower the lever.

Control indicator (BRAKE) ⇨ 67.

Brake assist

If the brake pedal is depressed quickly and forcefully, maximum brake force is automatically applied (full braking).

Maintain steady pressure on the brake pedal for as long as full braking is required. Maximum brake force is automatically reduced when the brake pedal is released.

Ride control systems

Traction Control system

Traction control system (TC) improves driving stability when necessary, regardless of the type of road surface or tyre grip, by preventing the driving wheels from spinning.

As soon as the driving wheels start to spin, engine output is reduced and the wheels are braked individually. This considerably improves the driving stability of the vehicle on slippery road surfaces.

TC is operational as soon as the control indicator extinguishes after engine start up.

When TC is active flashes.

⚠ Warning

Do not let this special safety feature tempt you into taking risks when driving.

Adapt speed to the road conditions.

Control indicator ⇨ 68.

Deactivation

TC can be switched off when spinning of drive wheels is required: press button .

Control indicator illuminates.

TC is reactivated by pressing the button again.

TC is also reactivated the next time the ignition is switched on.

Note

On manual transmission vehicles, the button is located on the right side of the console.

Electronic Stability Control

Electronic stability control (ESC) improves driving stability when necessary, regardless of the type of road surface or tyre grip. It also prevents the driving wheels from spinning.

As soon as the vehicle starts to swerve (understeer/oversteer), engine output is reduced and the wheels are braked individually. This considerably improves the driving stability of the vehicle on slippery road surfaces.

ESC is operational as soon as the control indicator extinguishes after engine start up.

When ESC is active flashes.

⚠Warning

Do not let this special safety feature tempt you into taking risks when driving.

Adapt speed to the road conditions.

Control indicator ⇨ 68.

Deactivation

For very high-performance driving ESC can be deactivated: hold button depressed for approx. 7 seconds.

Control indicator illuminates and both ESC and TC are deactivated.

ESC is reactivated by pressing the button again. If the TC System was previously disabled, both TC and ESC are reactivated.

ESC is also reactivated the next time the ignition is switched on.

Note
On manual transmission vehicles, the button is located on the right side of the console.

Cruise control

The cruise control can store and maintain speeds. Deviations from the stored speeds may occur when driving uphill or downhill.

For safety reasons the cruise control cannot be activated until the foot brake has been operated once after engine start up.

With automatic transmission, only activate cruise control in automatic mode.

Control indicator ⇨ 70.

Switching on

Press rocker switch at the upper end, control indicator illuminates white.

Activation

Accelerate to the desired speed and turn thumb wheel to **SET/-**, the current speed is stored and maintained. Control indicator illuminates green. Accelerator pedal can be released.

Vehicle speed can be increased by depressing the accelerator pedal. When the accelerator pedal is released, the previously stored speed is resumed.

Increase speed

With cruise control active, hold thumb wheel turned to **RES/+** or briefly turn to **RES/+** repeatedly: speed increases continuously or in small increments.

Alternatively accelerate to the desired speed and store by turning to **RES/+**.

Reduce speed

With cruise control active, hold thumb wheel turned to **SET/-** or briefly turn to **SET/-** repeatedly: speed decreases continuously or in small increments.

Deactivation

Press button , control indicator illuminates white. Cruise control is deactivated. The stored speed is maintained.

Automatic deactivation:

- vehicle speed below approx. 30 km/h,
- the brake pedal is depressed,
- the clutch pedal is depressed,
- shift lever in **N**,
- the Traction Control system or Electronic Stability Control is operating.

Resume stored speed

Turn thumb wheel to **RES/+** at a speed above 40 km/h. The stored speed will be obtained.

Switching off

Press rocker switch at the lower end, control indicator is off. The stored speed is deleted. Switching off the ignition deletes also the stored speed.

Object detection systems

Parking assist

(If fitted)

The parking assist makes parking easier by measuring the distance between the vehicle and rear obstacles, and giving acoustic signals. It is the driver, however, who bears full responsibility for parking manoeuvre.

The system consists of four ultrasonic parking sensors in the rear bumper.

Control indicator P ⇨ 68.

Note

Attached parts in the detection area cause system malfunction.

Activation

When reverse gear is engaged, the system is activated automatically.

An obstacle is indicated by acoustic warnings. The interval between the warnings becomes shorter as the vehicle gets closer to the obstacle. When the distance is less than 40 cm, the acoustic warning sounds continuously.

Deactivation

The system is deactivated automatically when:

- the vehicle is driven above 10 km/h
- the vehicle is parked
- a fault in the system occurs.

Fault

In the event of a fault in the system, P illuminates.

Additionally if the system does not work due to temporary conditions like snow covered sensors, P illuminates.

Important hints for using the parking assist systems

⚠ Warning

Under certain circumstances, various reflective surfaces on objects or clothing as well as external noise sources may cause the system to fail to detect obstacles.

Caution

Performance of the sensor can be reduced when sensors are covered, e.g. by ice or snow.

Performance of the parking assist system can be reduced due to heavy loading.

Special conditions apply if there are taller vehicles involved (e.g. off-road vehicles, mini vans, vans). Object identification in the upper part of these vehicles cannot be guaranteed.

Objects with a very small reflection cross section, like objects of narrow size or soft materials, may not be detected by the system.

Parking assist will not avoid a collision with objects which are out of the detection range of the sensors.

Note
Sensor could detect a nonexisting object (echo disturbance) caused by external acoustical or mechanic disturbances.

Rear view camera

(If fitted)

The rear view camera assists the driver when reversing by displaying a view of the area behind the vehicle.

The view of the camera is displayed in the Colour-Info-Display.

⚠Warning

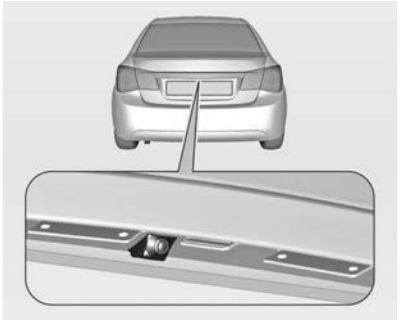
The rear view camera does not replace driver vision. Note that objects that are outside the camera's field of view and the advanced parking assist sensors, e.g. below the bumper or underneath the vehicle, are not displayed.

Do not reverse the vehicle by only looking at the Info-Display and check the surrounding behind and around the vehicle before reversing.

Activation

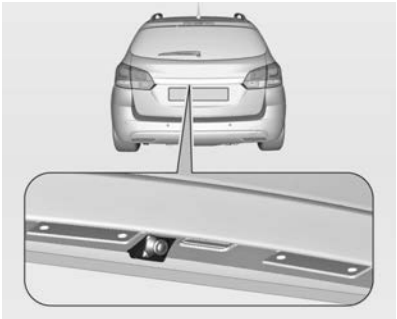
Rear view camera is automatically activated when reverse gear is engaged.

Functionality



4 Door sedan: The camera is mounted under the boot lid moulding.

5 Door hatchback: The camera is mounted in the rear bumper above the license plate.



Sportwagon: The camera is mounted under the boot lid moulding.

The camera has a viewing angle of 130°. Due to the positioning of the camera the rear bumper can be seen on the display as a guide to position.

The area displayed by the camera is limited. The distance of the image that appears on the display differs from the actual distance.

Warning symbols

Warning symbols are indicated as triangles ⚠on the picture which show obstacles detected by the rear sensors of the advanced parking assist.

The function can be deactivated in the menu **Vehicle Settings** in the Info-Display. Vehicle personalisation ⇨ 75.

Display settings

Brightness can be set with the instrument panel illumination control ⇨ 81.

Deactivation

The camera is deactivated when a certain forward speed is exceeded or if reverse gear is not engaged for approx. 10 seconds.

Activation or deactivation of the rear view camera can be changed in the menu **Vehicle Settings** in the Info-Display. Vehicle personalisation ⇨ 75.

Fault

The rear view camera may not operate properly when:

- the surrounding is dark,
- the sun or the beam of headlights is shining directly into the camera lens,
- ice, snow, mud, or anything else covers the camera lens. Clean the lens, rinse it with water, and wipe it with a soft cloth,
- the boot lid is not closed correctly (4 Door sedan),
- the vehicle had a rear end accident,
- there are extreme temperature changes.

Fuel

Fuel for petrol engines

Use clean, unleaded petrol of regular 91 Research Octane Number (RON) rating or higher.

Use of Premium unleaded petrol (95 RON or higher) on the 1.4L and 1.8L engines may provide a small improvement in performance and fuel economy.

Use of Premium unleaded petrol (95 RON or higher) on the 1.6L engine is recommended.

Purchasing your fuel from a reputable fuel retailer may reduce the risk of purchasing fuel which contains abnormal fuel properties.

Caution

Use of fuel with too low an octane rating could lead to uncontrolled combustion and engine damage.

Equivalent standardised fuels with an ethanol content of max. 10% by volume may be used.

⚠Warning

Under no circumstances should you use fuel containing more than 10% ethanol. Use of such fuels may result in engine malfunction, starting and operating difficulties, and materials degradation. These adverse effects could result in permanent damage to your vehicle and the risk of personal injury. Purchasing your fuel from a reputable fuel retailer may reduce the risk of purchasing fuel with more than 10% ethanol or fuel which contains abnormal fuel properties.

Fuel for diesel engines

Diesel engines must be operated only on commercially available diesel fuel meeting the requirements of Euro standard EN 590. The use of biodiesel containing up to 5 % fatty acid methyl ester ("FAME"), also known as "B5", is also permitted provided that the FAME meets the Euro standard EN 14214 and the resultant B5 blend meets the Euro standard EN 590.

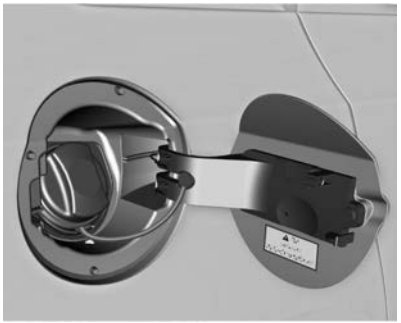
Do not use marine diesel oils, heating oils or entirely or partially plant-based diesel fuels, such as rape seed oil or bio diesel containing more than 5 % FAME.

⚠Warning

Use only biodiesel blends containing up to a maximum of 5 % FAME that meets Euro standard EN 590. Purchasing your fuel from a reputable fuel retailer may reduce the risk of purchasing fuel with more than 5 % FAME or fuel which contains abnormal fuel properties. Use of any other biodiesel that does not have the certification referred to above, or has FAME content exceeding 5 % may cause serious damage to your vehicle (including engine

failure). Damage attributable to the use of non-certified biodiesel is not covered by your New Vehicle Warranty. In no event will GM Holden be responsible or bear any liabilty for any damage or loss that may arise in connection with the use of any fuel that does not meet this specification.

Refuelling



⚠ Danger

Before refuelling, switch off engine and mobile phones.

Follow the operating and safety instructions of the filling station when refuelling.

⚠ Danger

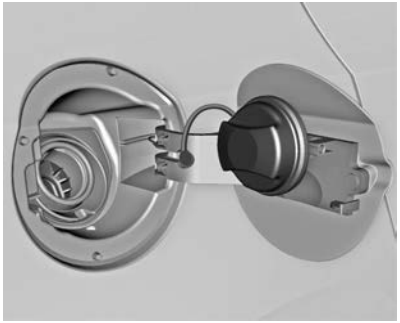
Fuel is flammable and explosive. No smoking. No naked flames or sparks.

If you can smell fuel in your vehicle, have the cause of this remedied immediately by your Holden Dealer.

Fuel filler flap is located at right rear side of vehicle.

The fuel filler flap can only be opened if the vehicle is unlocked. Release the fuel filler flap by pushing the flap.

To open, turn the cap slowly anti-clockwise.



The fuel filler cap can be retained in the bracket on the fuel filler flap.

When refuelling, fully insert the pump nozzle.

Caution
Wipe off any overflowing fuel immediately.

To close, turn the fuel filler cap clockwise until it clicks.

Close the flap and latch.

Fuel filler cap

Only a genuine fuel filler cap provides full functionality. Diesel-engined vehicles have special fuel filler caps.

Trailer hitch

General information

The word ‘Trailer’ is used throughout this section and is intended to include all types of towed vehicles, such as a caravan, boat trailer or any other special purpose trailer.

The vehicle is designed primarily as a passenger vehicle, so handling, durability and economy may be affected by towing a trailer. Your Holden Dealer will help supply and install towing equipment to suit your requirements.

Trailer towing ⇨ 112.

Trailer towing

Overloading

Never exceed the loads given for the towing equipment fitted to the vehicle. For your safety and the vehicle's durability, all mandatory equipment must be fitted. Otherwise you may void the New Vehicle Warranty, to the extent that Holden considers the overloading or missing equipment to have affected the specifications or quality of the vehicle.

Maximum towing capacities (kg)

Engine	Transmission	Type	Caravan/ Trailer
Petrol (1.4L)	Automatic transmission	With brake	1200
		Without brake	695
Petrol (1.6L), Petrol (1.8L)	Manual transmission	With brake	1200
		Without brake	695
	Automatic transmission	With brake	1200
		Without brake	695
Diesel (2.0L)	Automatic transmission	With brake	1200
		Without brake	750

Mandatory equipment: Holden 1,200 kg rated towbar and Holden trailer wiring harness.

⚠Warning

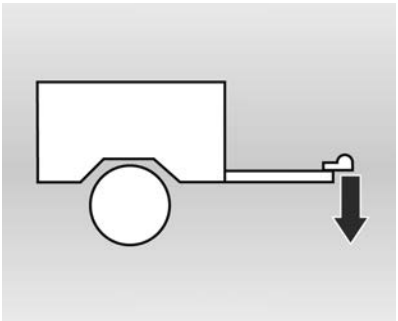
Holden towing equipment is recommended where it is available. Where it is not available, no recommendation is made as to the make of equipment to be used. Holden will not accept liability for defects occurring in inappropriate towing equipment or for defects in the vehicle arising from the use of such equipment or for loss or injury caused by use of such equipment.

The use of inappropriate equipment may void your New Vehicle Warranty to the extent that Holden considers the overloading or missing equipment to have affected the specifications or quality of your vehicle.

Towing with Electronic Stability Control (ESC)

You may hear noise from the ESC modulator when it is working. The ESC is reacting to the vehicle movement caused by the trailer, which mainly occurs during cornering. This is considered normal when towing heavier trailers.

Recommended procedure for attaching a trailer



When a trailer is hitched to the vehicle, it places a weight on the tow bar. This weight is called the ‘tow ball load’.

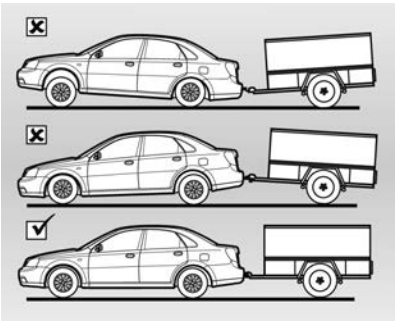
If the tow ball load is too light or too heavy, the steering and handling of the vehicle may be affected.

As a general guideline, for single axle trailers, the ball load should be approximately 10 % of the loaded trailer mass. For heavy trailers with more than one axle, the ball load should be in the range of 5 % - 10 % of the loaded trailer mass.

Note
The tow ball load should not exceed 75 kg.

The tow ball load can be adjusted by correctly packing the contents of the trailer. For example, by moving items forwards or backwards within the trailer so as to change the balance of the trailer.

Check the tow ball load before coupling the trailer to the towing vehicle.



If the attitude of the vehicle is compromised, adjust the vehicle and trailer load within the specifications to improve the attitude. If the vehicles attitude cannot be corrected, use a load distribution hitch.

Note

At no time may the maximum towing capacity exceed the maximums specified. Refer to Maximum towing capacity previously in this chapter.

At no time may the total rear axle load exceed the maximums specified. Refer to Loading the vehicle previously in this chapter.

Towing precautions

- When heavily loading your vehicle or when towing, your tyres should be inflated to the maximum recommended pressure. Refer to tyre pressure placard and information about tyre pressures ⇨ 143.
- Tighten the tow ball retaining nut to 140 Nm (Newton Meters) and check the torque frequently.
- Vehicles handle differently when towing. It is a good idea to make a couple of short distance trips with the trailer before setting off on a longer journey.
- Have your vehicle correctly maintained and serviced.
- Have the trailer maintained and serviced, with particular attention to the condition of the brakes, tyres, suspension, wheel bearings, lighting and the tow coupling.
- Use extended-arm rear view mirrors on both sides of the vehicle if necessary.
- Headlamps may need realignment after the loaded trailer has been hitched.
- Use a lower gear and the brakes, when descending steep hills.
- Do not use axle-mounted hitches as this will damage the vehicle.
- Ensure that no part of the tow bar (including the tongue or tow ball) obscures the vehicle’s licence plate. If necessary, remove the tow bar tongue when it is not in use.
- If a tow bar is removed: Ensure to have any mounting holes in the underbody properly sealed to prevent the possible entry of exhaust fumes, dust and water.

Trailer brakes

- Trailer brakes are mandatory on trailers weighing 695 kg (1.4L, 1.6L and 1.8L Petrol), 750 kg (2.0L Diesel) and over when loaded. The brakes on the trailer must be designed to cope with the braking requirements of the trailer under all towing conditions, without adversely affecting the brakes on the vehicle.
- Contact the appropriate regulatory body in your State or Territory for the legal requirements of trailer brakes.

Fitting accessories (bull bars, driving lamps, insect screens, etc)

When fitting accessories, take care not to restrict airflow through the air conditioner condenser and the radiator, otherwise engine overheating and/or poor air conditioning performance may result.

The mass of all accessories must be considered when evaluating the vehicle's overall loaded condition.

Remember that bull bars may affect airbag operation.

Running in before towing

Holden recommends that you drive your new vehicle for at least 1,500 km before towing. If you must tow in the first 1,500 km of the vehicle's life, do not exceed 80 km/h.

The same applies if the vehicle is equipped with a new or reconditioned engine, transmission or axle.

Vehicle maintenance

More frequent vehicle maintenance is required when using the vehicle for towing. Refer to the Service/warranty booklet in the vehicle's glovebox.

Vehicle care

General Information 117
Vehicle checks 118
Bulb replacement 128
Electrical system 137
Vehicle tools 142
Wheels and tyres 143
Jump starting 154
Towing 156
Appearance care 157

General Information

Accessories and vehicle modifications

We recommend to use Genuine Parts and Accessories and factory approved parts specific for your vehicle type. We cannot assess or guarantee the suitability or performance of other products, even if they have regulatory or other approval.

Do not make any modifications to the electrical system, e.g. changes of electronic control units (chip tuning).

Vehicle storage

Storage for a long period of time

If the vehicle is to be stored for several months:

- Wash and wax the vehicle.
- Clean and preserve rubber seals.
- Fill up fuel tank completely.
- Change engine oil.
- Drain washer fluid reservoir.
- Check coolant anti-freeze and corrosion protection.
- Adjust tyre pressure to the value specified for full load.
- Park vehicle in dry, well ventilated place. Engage first or reverse gear or set shift lever to **P**. Prevent the vehicle from rolling.
- Do not apply parking brake.
- Open bonnet, close all doors and lock the vehicle.
- Disconnect the clamp from the negative terminal of the vehicle battery. Beware that all systems are not functional, e.g. anti-theft alarm system.

Putting back into operation

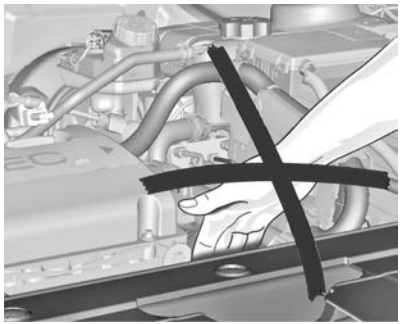
When the vehicle is to be put back into operation:

- Connect the clamp to the negative terminal of the vehicle battery. Activate the electronic of the power windows.
- Check tyre pressure.
- Fill up the washer fluid reservoir.
- Check the engine oil level.

- Check the coolant level.
- Fit the number plate if necessary.

Vehicle checks

Performing work



⚠Warning

Only perform engine compartment checks when the ignition is off.

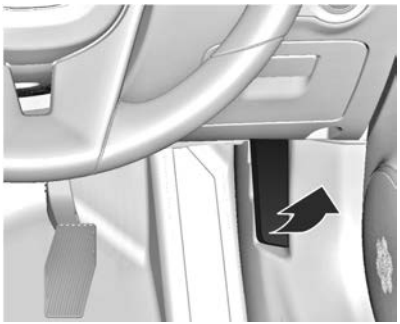
The cooling fan may start operating even if the ignition is off.

⚠Danger

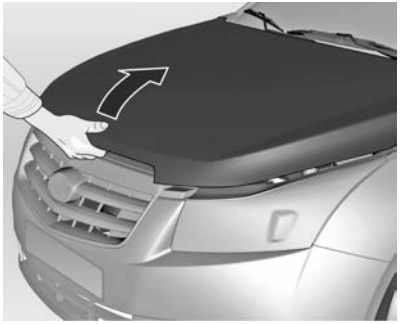
The ignition system uses extremely high voltage. Do not touch.

Bonnet

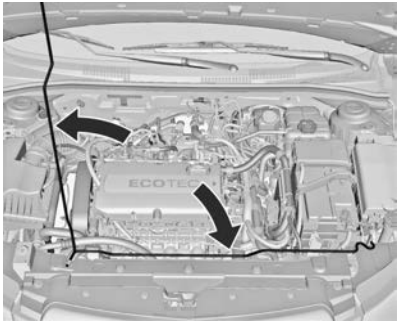
Opening



Pull the release lever and return it to its original position.



Push the safety catch to the right and open the bonnet.



Secure the bonnet support.

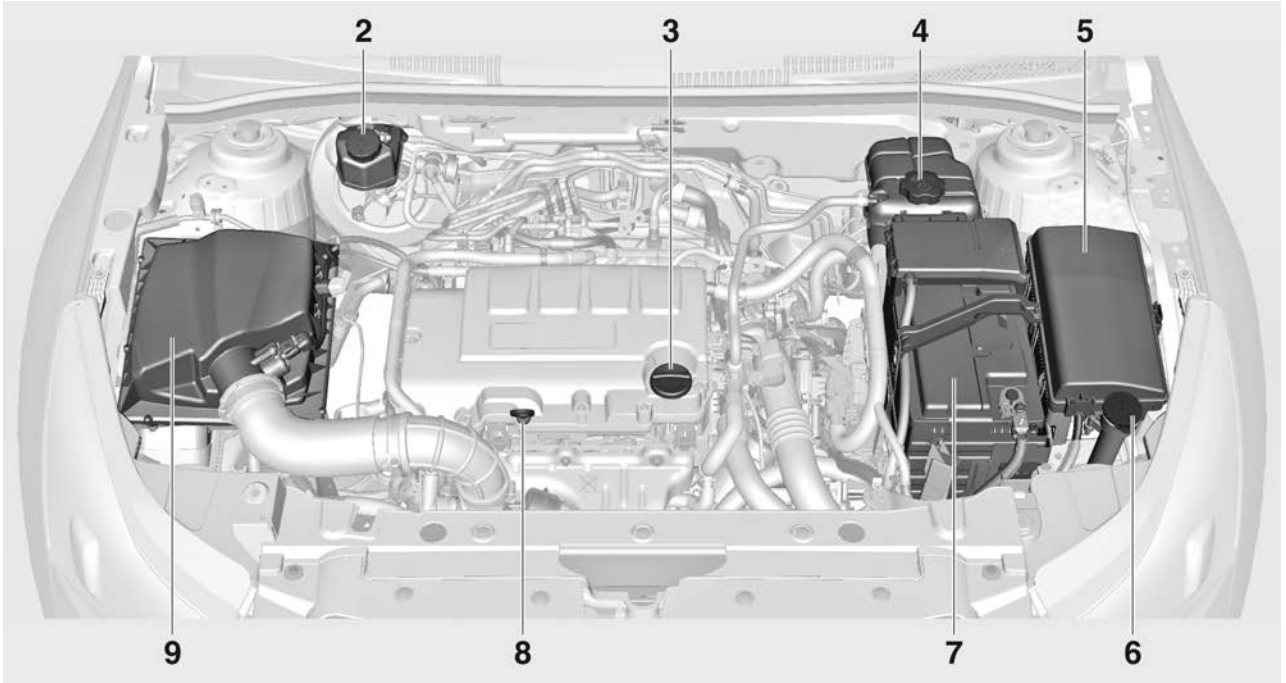
Closing

Before closing the bonnet, press the support into the holder.

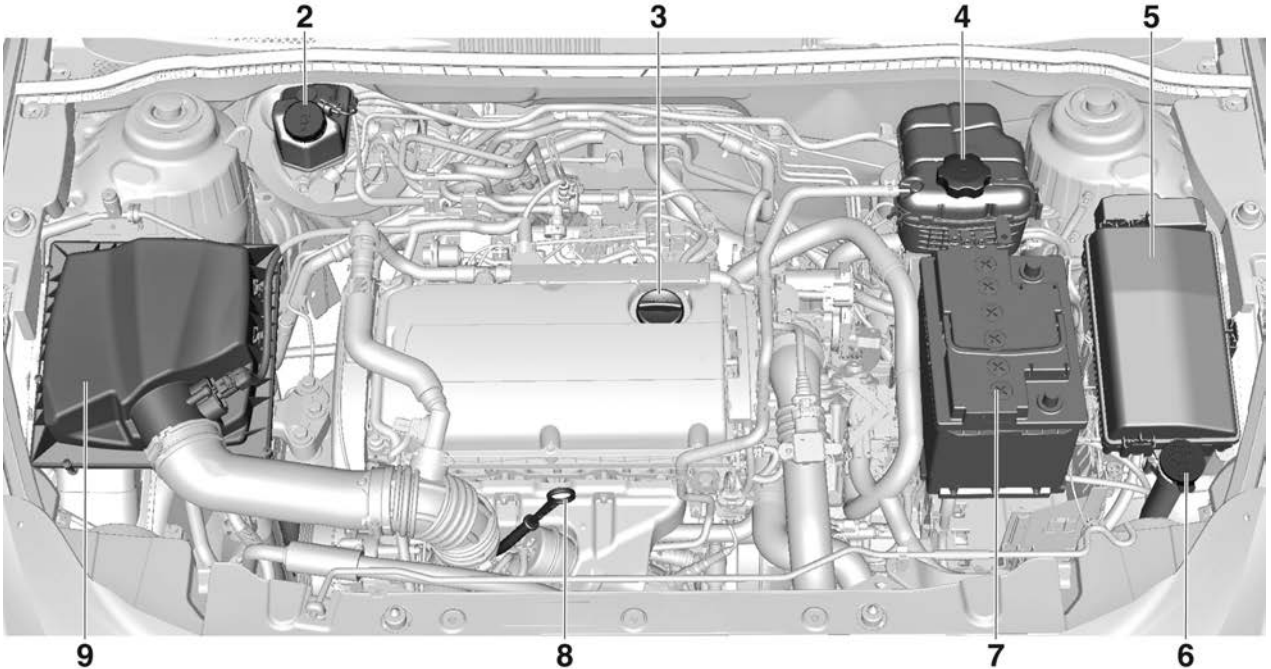
Lower the bonnet and allow it to drop into the catch. Check that the bonnet is engaged.

Engine compartment overview

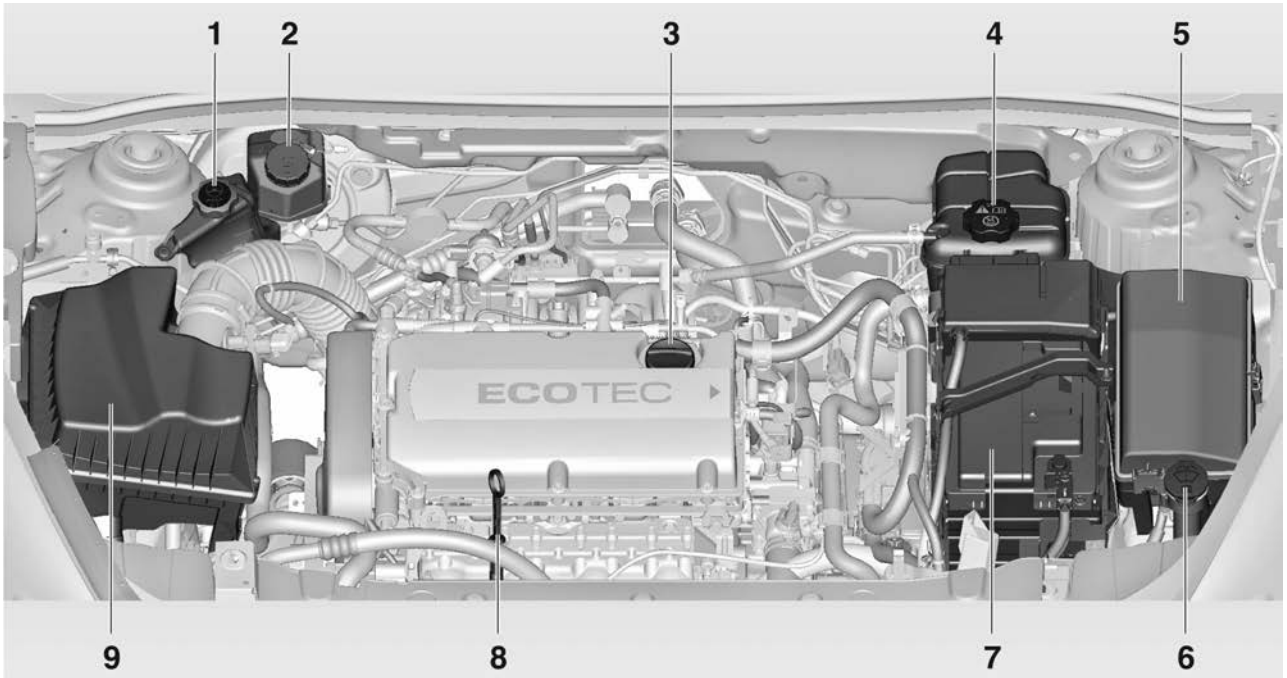
1.4L Petrol engine



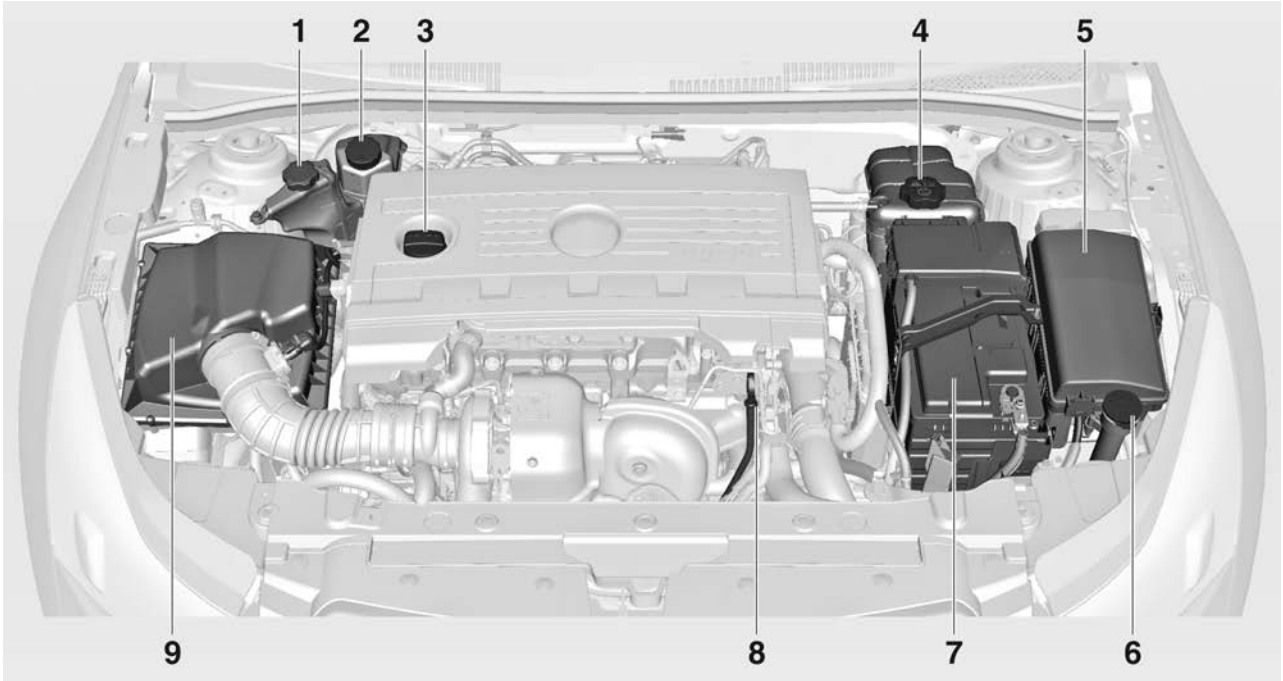
1.6L Petrol engine



1.8L Petrol engine



2.0L Diesel engine



1. Power steering fluid container ⇨ 126
2. Brake fluid container ⇨ 127
3. Engine oil cap ⇨ 124
4. Engine coolant container ⇨ 126
5. Fuse box ⇨ 138
6. Washer fluid container ⇨ 127
7. Battery ⇨ 127
8. Dipstick for engine oil level ⇨ 124
9. Engine air filter ⇨ 125

Engine oil

It is advisable to check the engine oil level manually before embarking on a long journey.

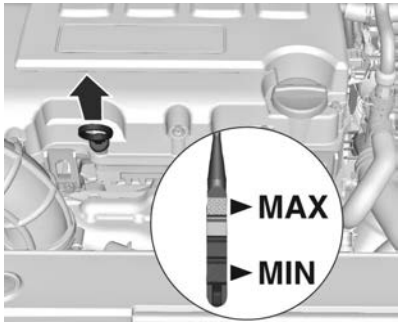
Check with the vehicle on a level surface. The engine must be at operating temperature and switched off for at least 10 minutes.

Pull out the dipstick, wipe it clean, insert it to the stop on the handle, pull out and read the engine oil level.

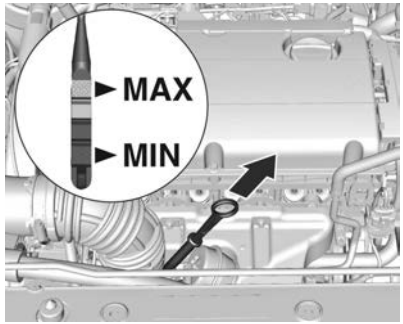
Insert dipstick to the stop on the handle and make half a turn.

Different dipsticks are used depending on engine variant.

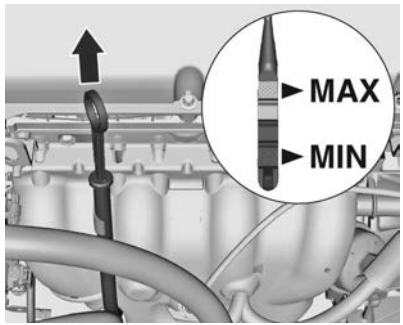
1.4L Petrol:



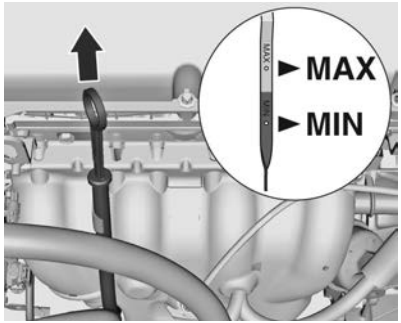
1.6L Petrol:



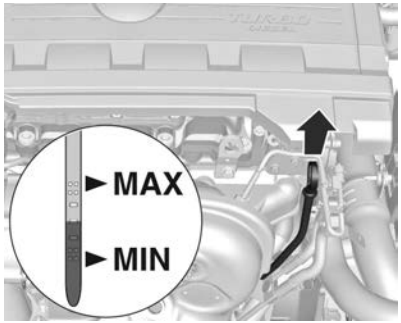
1.8L Petrol (4 Door sedan, 5 Door hatchback):



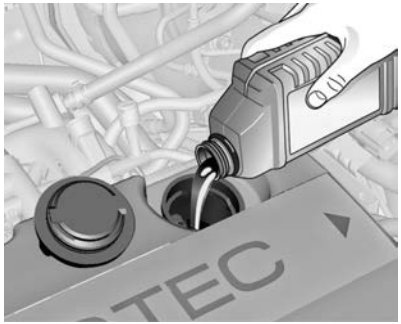
1.8L Petrol (Sportwagon):



2.0L Diesel:



When the engine oil level has dropped to the **MIN** mark, top up engine oil.



Refer to the manufacturers specifications on engine oil ⇨ 161.

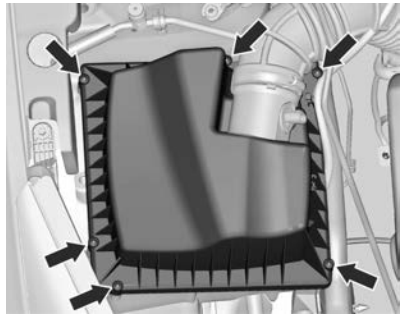
The engine oil level must not exceed the **MAX** mark on the dipstick.

Caution
Overfilled engine oil must be drained or suctioned out.

Replace oil cap and tighten it.

Caution
When driving at a slope, the warning code 79 might be displayed in the Driver Information Centre ⇨ 72. If the code disappears when driving in a flat area again, do not top up engine oil.

Engine air filter



To replace engine air filter unscrew 6 screws and remove air filter housing.

Engine coolant

The coolant provides freeze protection down to approx. -28 °C.

⚠Warning

Do not spill coolant on the vehicle's exterior surfaces. It can damage the paintwork. If you do, wash it off immediately.

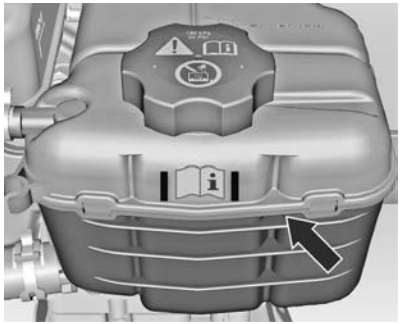
Caution

Only use approved anti-freeze.

Coolant level

Caution

Too low a coolant level can cause engine damage.



If the cooling system is cold, the coolant level should be above the filling line mark. Top up if the level is low.

⚠Warning

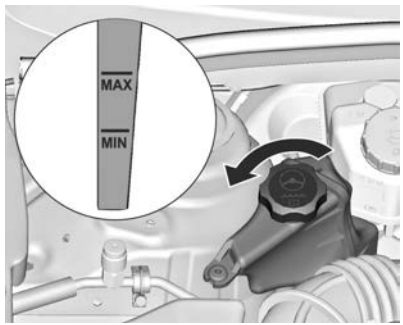
Allow the engine to cool before opening the cap. Carefully open the cap, relieving the pressure slowly.

Top up with antifreeze. If no antifreeze is available, use clean tap water or distilled water. Install the cap tightly. Have the antifreeze concentration checked and have the cause of the coolant loss remedied by your Holden Dealer.

Power steering fluid

Caution

Extremely small amounts of contamination can cause steering system damage and cause it to not work properly. Do not allow contaminates to contact the fluid side of the reservoir cap/dipstick or from entering the reservoir.



Open the cap and remove. Wipe the dipstick dry and turn the cap in the reservoir. Open the cap again and read the power steering fluid level.

The power steering fluid level must be between the **MIN** and the **MAX** marks.

If the fluid level is too low, seek the assistance of your Holden Dealer.

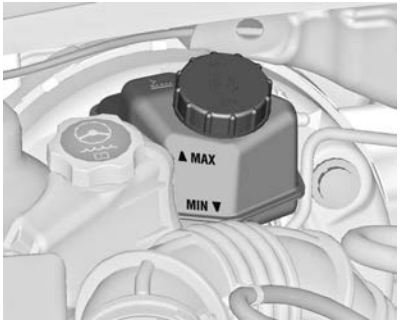
Washer fluid

Fill with clean water mixed with a suitable quantity of windscreen wash solution.

Brake fluid

⚠Warning

Brake fluid is poisonous and corrosive. Avoid contact with eyes, skin, fabrics and painted surfaces.



The brake fluid level must be between the **MIN** and the **MAX** marks.

When topping up, ensure maximum cleanliness as contamination of the brake fluid can lead to brake system malfunctions. Have the cause of the loss of brake fluid remedied by your Holden Dealer.

Only use high-performance brake fluid approved for the vehicle. Brake and clutch fluid ⇨ 161.

Vehicle battery

The vehicle is equipped with a lead acid battery. The battery is maintenance-free.

Caution

A specifically developed battery with a ventilation system is required for this vehicle. Only use a manufacturer recommended battery as a replacement.

Non use of the vehicle for more than 4 weeks can lead to battery discharge. Disconnect the clamp from the negative terminal of the vehicle battery.

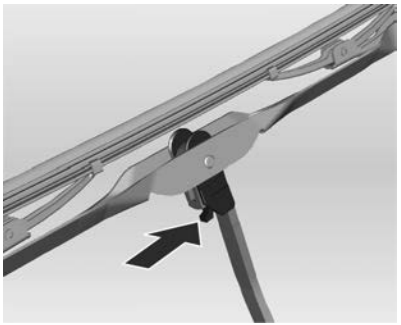
Ensure the ignition is switched off before connecting or disconnecting the vehicle battery.

Battery discharge protection ⇨ 82.

Diesel fuel system bleeding

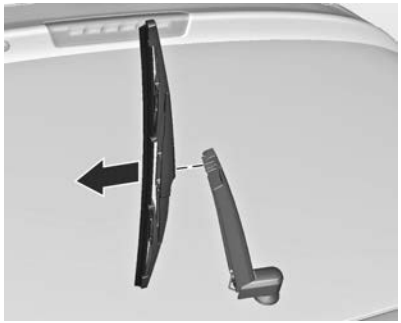
If the tank has been run dry, the diesel fuel system must be bled. Switch on the ignition 3 times for 15 seconds at a time. Then crank the engine for a maximum of 40 seconds. Repeat this process after no less than 5 seconds. If the engine fails to start, seek the assistance of your Holden Dealer.

Wiper blade replacement



Lift wiper arm. Move release lever and detach wiper blade.

Wiper blade on the rear window (Hatch & Sportwagon)



Lift wiper arm. Disengage wiper blade as shown in illustration and remove.

Attach the wiper blade slightly angled to the wiper arm and push until it engages.

Lower wiper arm carefully.

Bulb replacement

Switch off the ignition and switch off the relevant switch or close the doors.

Only hold a new bulb at the base! Do not touch the bulb glass with bare hands.

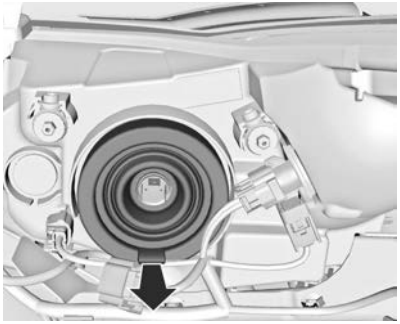
Use only the same bulb type for replacement.

Replace headlight bulbs from within the engine compartment.

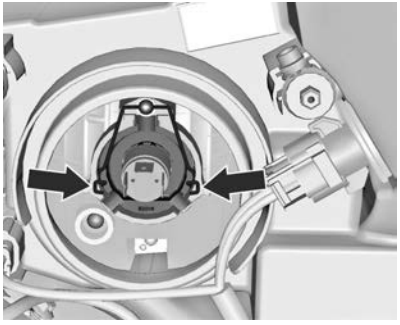
Halogen headlights

Low beam and high beam

1. Detach plug connector from bulb.



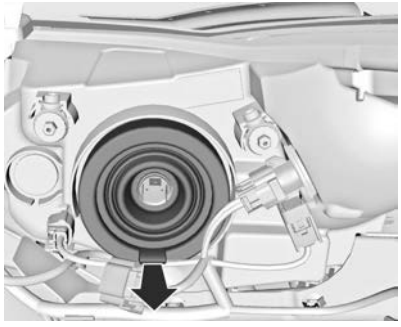
2. Remove protective cover.



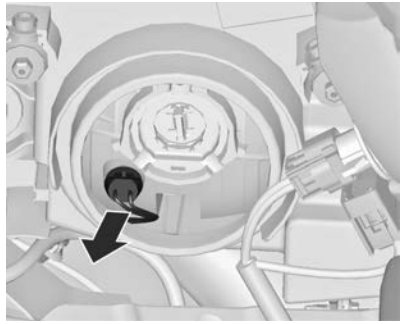
3. Press spring clip, disengage and swivel it upward.
4. Remove bulb from reflector housing.
5. When fitting a new bulb, engage the lugs in the recesses on the reflector.
6. Engage the spring clip.
7. Place headlamp protective cover in position.
8. Plug connector onto bulb.

Parking lights

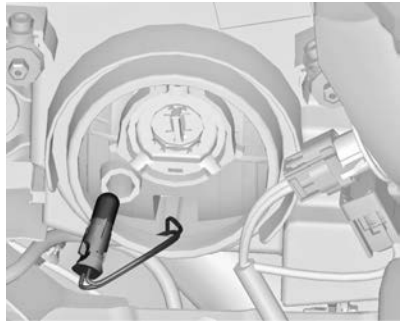
1. Detach plug connector from bulb.



2. Remove protective cover.



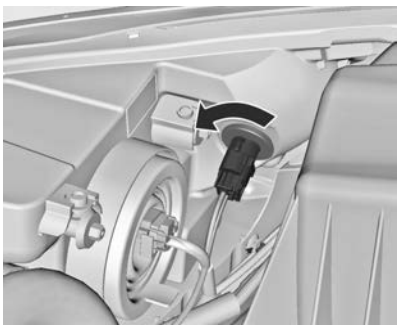
3. Remove side light bulb holder from reflector.



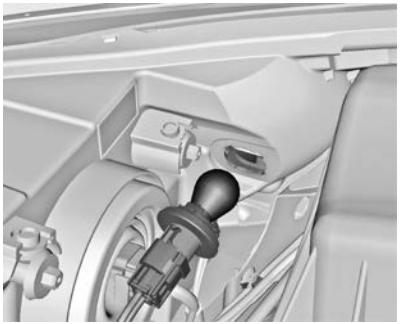
4. Remove bulb from socket.
5. Insert new bulb.

6. Insert holder in reflector.
7. Place headlamp protective cover in position.
8. Plug connector onto bulb.

Front turn signal lights



1. Rotate bulb holder anti-clockwise and disengage.



2. Push bulb into socket slightly, rotate anti-clockwise, remove and renew bulb.
3. Insert bulb holder in reflector, rotate clockwise to engage.

Fog lights

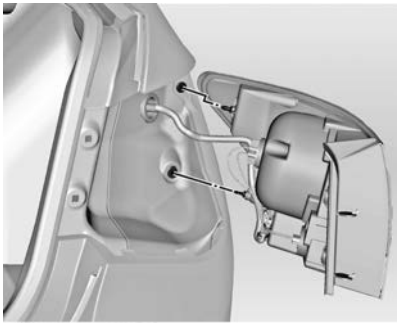
Have bulbs replaced by your Holden Dealer.

Tail lights

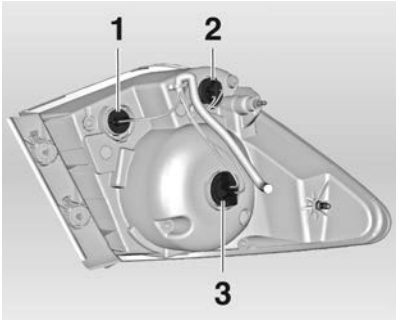
4 Door sedan

1. Open both covers.

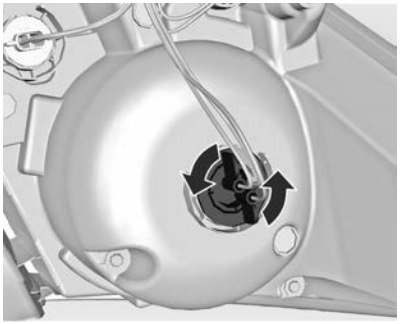
2. Unscrew both screws.



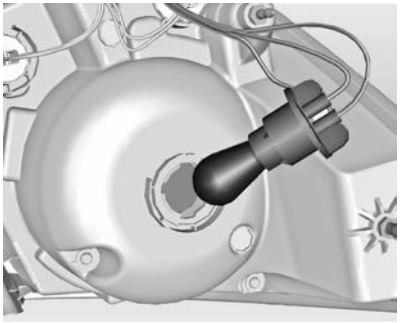
3. Remove tail light assembly. Take care that the cable duct remains in position.



4. Reverse light (**1**)
   Turn signal light (**2**)
   Tail light/brake light (**3**)



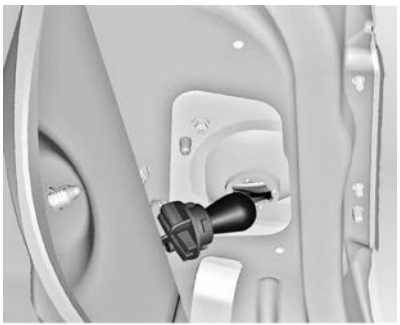
5. Rotate bulb holder anti-clockwise.



6. Remove bulb holder. Push bulb into socket slightly, rotate anti-clockwise, remove and renew bulb.
7. Insert bulb holder into the tail light assembly and rotate clockwise into place. Install tail light assembly in body and tighten screws. Close covers and engage.
8. Switch on ignition, operate and check all lights.

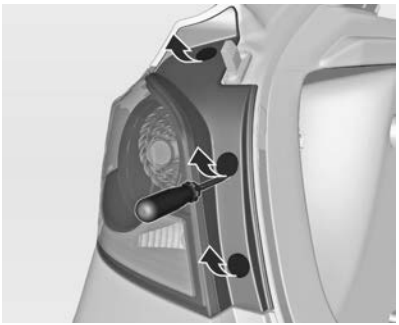
Tail lights in boot lid

1. Remove the boot lid panelling.
2. Rotate bulb holder anti-clockwise.

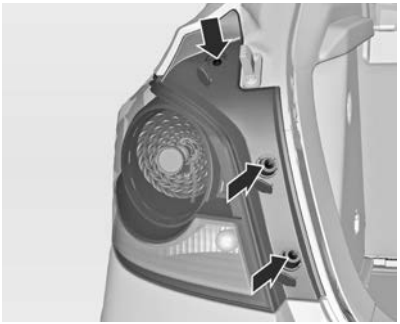


3. Remove bulb holder. Push bulb into socket slightly, rotate anti-clockwise, remove and renew bulb.
4. Insert bulb holder into boot. Refit the inner panelling to boot lid.
5. Switch on ignition, operate and check the lights.

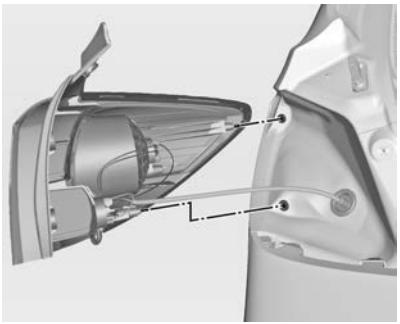
5 Door hatchback



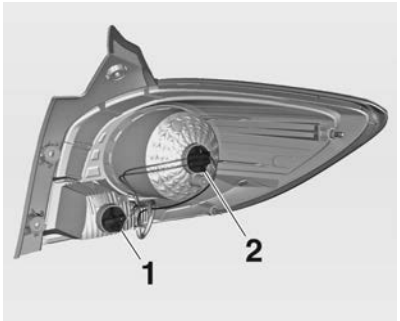
1. Open the three covers.



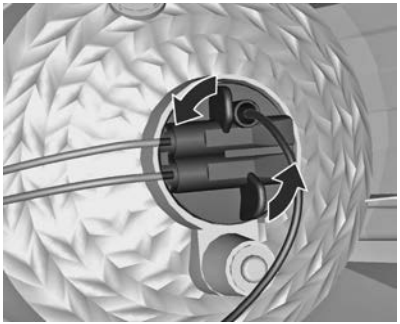
2. Unscrew the three screws.



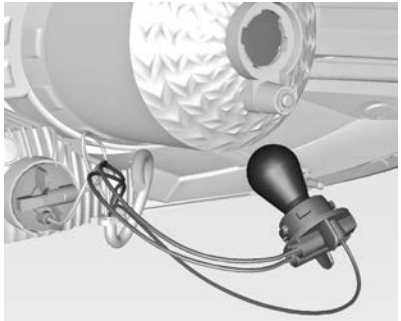
3. Remove tail light assembly. Take care that the cable duct remains in position.



4. Turn signal light (**1**)
   Tail light/brake light (**2**)



5. Rotate bulb holder anti-clockwise.



6. Remove bulb holder. Push bulb into socket slightly, rotate anti-clockwise, remove and renew bulb.
7. Insert bulb holder into the tail light assembly and screw into place. Connect wiring plug. Install tail light assembly in body and tighten screws. Close covers and engage.
8. Switch on ignition, operate and check all lights.

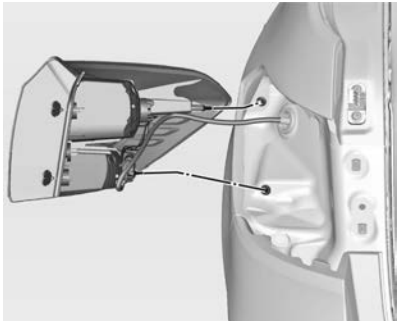
Reverse light

Have bulb replaced by a workshop.

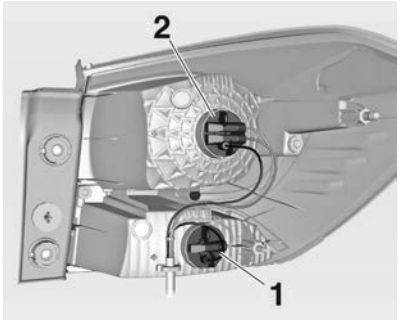
Sportwagon

1. Open both covers.

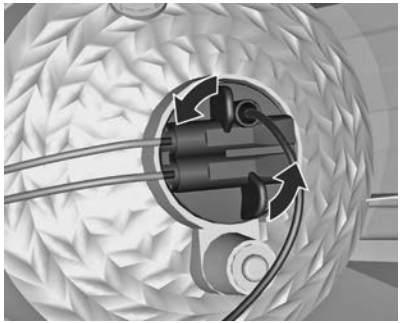
2. Unscrew both screws.



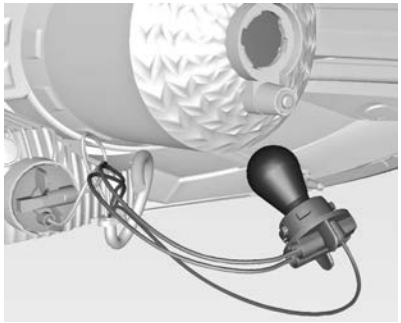
3. Remove tail light assembly. Take care that the cable duct remains in position.



4. Turn signal light (**1**)
   Tail light/brake light (**2**)



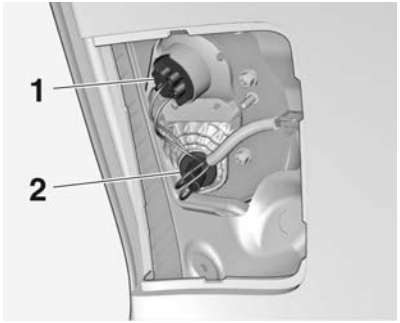
5. Rotate bulb holder anti-clockwise.



6. Remove bulb holder. Push bulb into socket slightly, rotate anti-clockwise, remove and renew bulb.
7. Insert bulb holder into the tail light assembly and screw into place. Install tail light assembly in body and tighten screws. Close covers and engage.
8. Switch on ignition, operate and check all lights.

Tail lights in boot lid

1. Open the tailgate and remove the cover on the respective side.



2. Remove the bulb holder by turning anti-clockwise. Replace the bulb by pulling out of the socket, and then pushing in the replacement bulb.

   Reverse light (**1**).

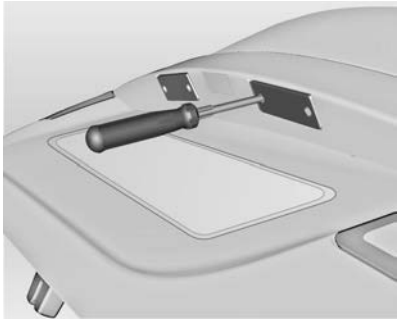
   Tail light (**2**).
3. Insert bulb holder and turn clockwise. Attach cover.
4. Switch on ignition, operate and check the lights.

Side turn signal lights

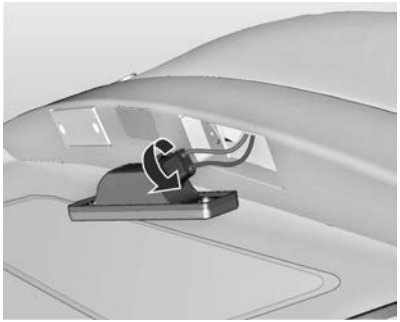
Have bulbs replaced by your Holden Dealer.

Number plate light

4 Door sedan



1. Unscrew both screws.



2. Remove bulb housing downward, taking care not to pull on the cable.

   Rotate bulb holder anti-clockwise to disengage.
3. Remove bulb from holder and renew bulb.
4. Insert bulb holder in bulb housing and rotate clockwise.
5. Insert bulb housing and secure using a screwdriver.

5 Door hatchback, Sportwagon

1. Insert screwdriver in bulb housing, press to the side and release spring.
2. Remove bulb housing downward, taking care not to pull on the cable.

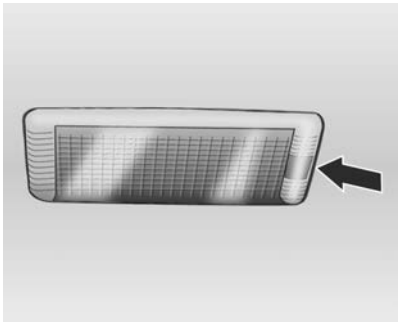
3. Rotate bulb holder anti-clockwise to disengage.
4. Remove bulb from holder and renew bulb.
5. Insert bulb holder in bulb housing and rotate clockwise.
6. Insert and engage bulb housing.

Interior lights

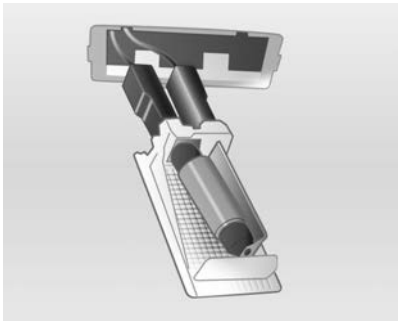
Courtesy light, reading lights

Have bulbs replaced by your Holden Dealer.

Boot compartment light



1. Prise the lamp out with a screwdriver.



2. Press bulb slightly towards spring clip and remove.
3. Insert new bulb.
4. Install lamp.

Instrument panel illumination

Have bulbs replaced by your Holden Dealer.

Electrical system

Fuses

Data on the replacement fuse must match the data on the defective fuse.

There are two fuse boxes in the vehicle:

- in the front left of the engine compartment,
- in the interior behind the glove box.

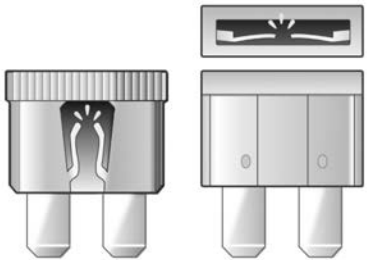
In a box above the positive terminal of the battery are some main fuses. If necessary have them changed by your Holden Dealer.

Before replacing a fuse, turn off the respective switch and the ignition.

A blown fuse can be recognised by its melted wire. Do not replace the fuse until the cause of the fault has been remedied.

Some circuits are protected by several fuses.

Fuses may also be inserted into a blank cavity, where there is no circuit.



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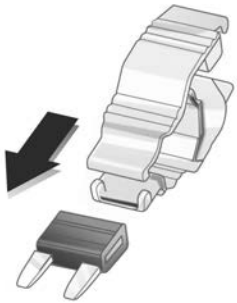
Fuse extractor

A fuse extractor may be located in the fuse box in the engine compartment.



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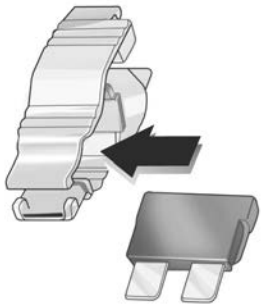

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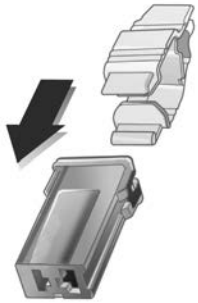
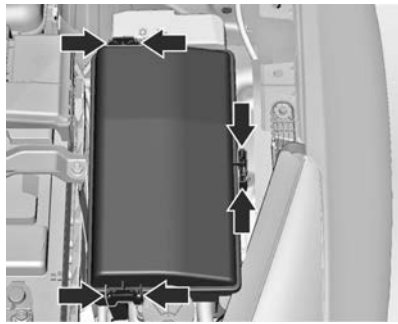


30044

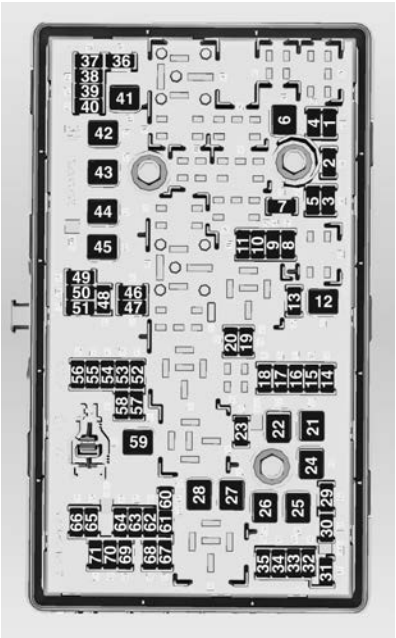
Place the fuse extractor on the various types of fuse from the top or side, and withdraw fuse.

Engine compartment fuse box



The fuse box is in the front left of the engine compartment.

Disengage the cover, lift it upwards and remove.



No.	Circuit
1	Transmission control module
2	Engine control module
3	–
4	Canister vent sol
5	Ignition
6	Front wipers
7	–
8	Fuel injection
9	Fuel injection, ignition system
10	Engine control module
11	Lambda sensor
12	Starter solenoid
13	Canister vent sol
14	–
15	Rear wiper
16	Ignition, Air quality sensor
17	Ignition, Airbag

No.	Circuit
18	Fuel system control module
19	–
20	Fuel pump
21	Rear power windows
22	–
23	–
24	Front power windows
25	Electronic vacuum pump
26	ABS
27	Electronic key system
28	Heated rear window
29	–
30	ABS
31	Body control module
32	Body control module
33	Front seat heating
34	–

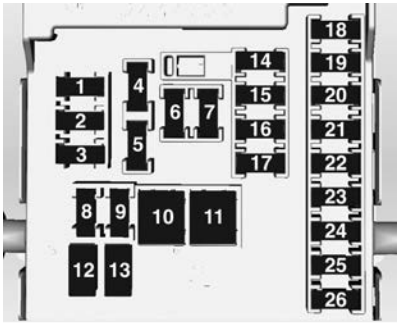
No.	Circuit
35	Infotainment system, Amplifier
36	–
37	High beam, right side
38	High beam, left side
39	–
40	–
41	–
42	Cooling fan
43	–
44	–
45	Cooling fan
46	Cooling fan
47	Lambda sensor
48	Fog lights
49	–
50	–
51	Horn

No.	Circuit
52	Instrument panel
53	Electrochromatic mirror
54	Light switch, Light control
55	Mirror folding
56	Windscreen washer
57	Steering column lock
58	–
59	Diesel fuel heating
60	Mirror heating
61	Mirror heating
62	Air conditioning
63	Rear window sensor
64	Air quality sensor
65	Rear fog lamp
66	Rear washer
67	Fuel system control module
68	–

No.	Circuit
69	Battery voltage sensor
70	Rain sensor
71	–

Instrument panel fuse box

The fuse box is located behind a cover in the glovebox. Open the glovebox and remove the cover.



No.	Circuit
1	Infotainment system, handsfree phone
2	–
3	Body control module
4	Infotainment system
5	Display/faceplate, parking assist, power sounder
6	Cigarette lighter
7	Power outlet
8	Body control module
9	Body control module
10	Body control module
11	Interior fan
12	–
13	Heated seats
14	Diagnostic connector
15	Airbag
16	Central locking system
17	Air conditioning system
18	Trailer wiring power
19	Shift lever
20	–
21	Instruments
22	Ignition, Electronic key system
23	Body control module
24	Body control module
25	Steering column lock
26	Rear power outlet

Vehicle tools

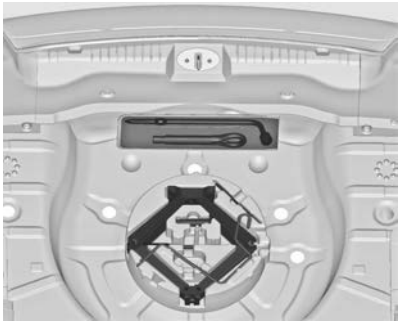
Tools

Vehicles with tyre repair kit

The tools and tyre repair kit are in a storage compartment below the floor cover in the boot.

Vehicles with spare wheel

The jack and the tools are in a stowage compartment in the boot below the spare wheel. Spare wheel ⇨ 152.



A LONG wheel tub stud may also be stored with the vehicle tools.

Wheels and tyres

Tyre condition, wheel condition

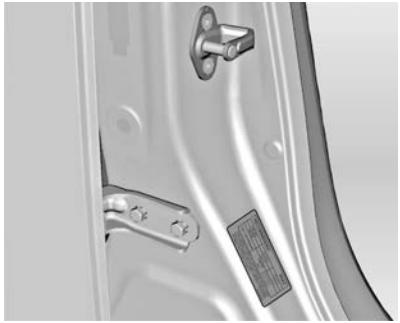
Drive over edges slowly and at right angles if possible. Driving over sharp edges can cause tyre and wheel damage. Do not trap tyres on the kerb when parking.

Regularly check the wheels and tyres for damage. Seek the assistance from your Holden Dealer in the event of damage or unusual tyre wear.

Tyre pressure

Check the pressure of cold tyres at least every 14 days and before any long journey. Do not forget the spare wheel.

Unscrew the valve cap.



Refer to the tyre pressure placard on the front right door frame.

The tyre pressure data refers to cold tyres.

Always inflate the spare tyre to the pressure specified for full load.

Incorrect tyre pressures will impair safety, vehicle handling, comfort and fuel economy and will increase tyre wear.

⚠Warning

If the pressure is too low, this can result in considerable tyre warm-up and internal damage, leading to tread separation and even to tyre blow-out at high speeds.

Tread depth

Check tread depth at regular intervals.

Tyres should be replaced for safety reasons when

1. The tyres are worn to the point where the tread indicators as shown, appear or the cord or fabric is showing.
2. The tread or side wall is cut, split, or cracked deep enough to expose the cord or fabric.
3. The tyre has a bump or bulge in it, indicating some kind of internal damage.
4. The tyre has a puncture, cut or other damage which cannot be repaired because of the size or

location of the damage. If in doubt about the extent of the damage to the tyre, have it removed from the wheel and examined by a tyre specialist.

The legally permissible minimum tread depth (1.6 mm) has been reached when the tread has worn down as far as one of the tread wear indicators (TWI). Their position is indicated by markings on the sidewall.

If there is more wear at the front than the rear, swap round front wheels and rear wheels. Ensure that the direction of rotation of the wheels is the same as before.

Tyres age, even if they are not used. We recommend tyre replacement every 6 years.

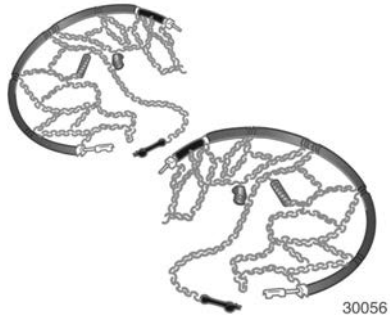
Wheel covers

Wheel covers and tyres that are factory approved for the respective vehicle and comply with all of the relevant wheel and tyre combination requirements must be used.

⚠Warning

Use of unsuitable tyres or wheel covers could lead to sudden pressure loss and thereby accidents.

Tyre chains



Tyre chains are only permitted on the front wheels.

Always use fine mesh chains that add no more than 10 mm to the tyre tread and the inboard sides (including chain lock).

⚠Warning

Damage may lead to tyre blowout.

Tyre repair kit

(If fitted)

Minor damage to the tyre tread or sidewall can be repaired with the tyre repair kit.

Do not remove foreign bodies from the tyres.

Tyre damage exceeding 4 mm or that is at tyre's side wall near the rim cannot be repaired with the tyre repair kit.

⚠Warning

Do not drive faster than 80 km/h.

Do not use for a lengthy period.

Steering and handling may be affected.

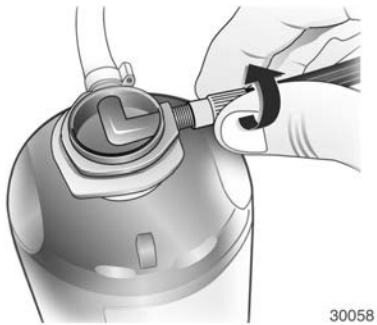
If you have a flat tyre:

Apply the parking brake and engage first gear, reverse gear or **P**.

The tyre repair kit is in a compartment under the floor cover in the load compartment.

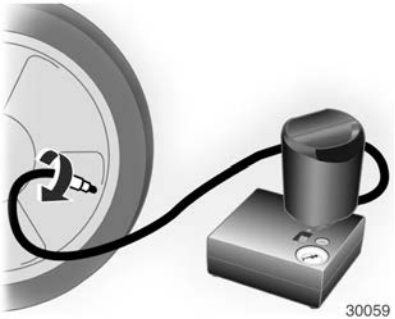
1. Take the tyre repair kit from the compartment.
2. Remove the compressor.

3. Remove the electrical connection cable and air hose from the stowage compartments on the underside of the compressor.



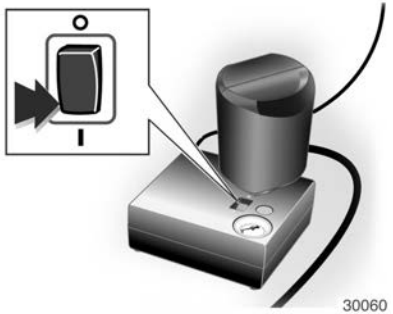
4. Screw the compressor air hose to the connection on the sealant bottle.
5. Fit the sealant bottle into the retainer on the compressor.

   Set the compressor near the tyre in such a way that the sealant bottle is upright.

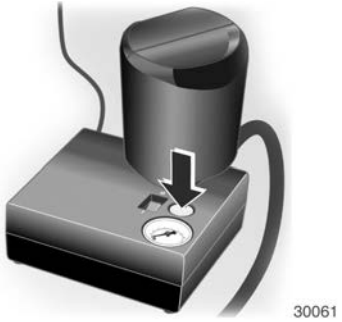

30059

6. Unscrew valve cap from defective tyre.
7. Screw the filler hose to the tyre valve.
8. The switch on the compressor must be set to O.
9. Connect the compressor plug to the accessory socket at the rear of the console.

   To avoid discharging the battery, we recommend running the engine.


30060

10. Set the rocker switch on the compressor to I. The tyre is filled with sealant.
11. The compressor pressure gauge briefly indicates up to 90 PSI/620 kPa whilst the sealant bottle is emptying (approx. 30 seconds). Then the pressure starts to drop.
12. All of the sealant is pumped into the tyre. Then the tyre is inflated.
13. The recommended tyre pressure should be obtained within 10 minutes. Tyre pressure ⇨ 143. When the correct pressure is obtained, switch off the compressor.


30061

If the recommended tyre pressure is not obtained within 10 minutes, remove the tyre repair kit. Move the vehicle one tyre rotation. Reattach the tyre repair kit and continue the filling procedure for 10 minutes.

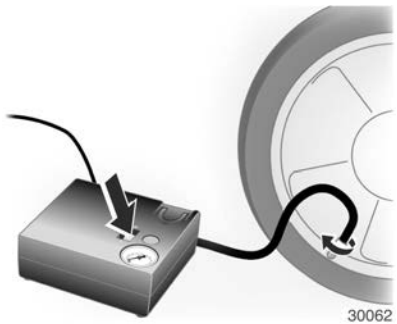
⚠Warning

If the recommended pressure cannot be reached after approximately 15 minutes, the vehicle should not be driven. The tyre is too severly damaged and the tyre sealant and air compressor kit cannot inflate the tyre. Disconnect and stow the tyre sealant and air compressor kit back in its original position. Contact you Holden Dealer.

Drain excess tyre pressure with the button over the pressure indicator.

Do not run the compressor longer than 10 minutes.

14. Detach the tyre repair kit. Push catch on bracket to remove sealant bottle from bracket. Screw tyre inflation hose to free connection of sealant bottle. This prevents sealant from escaping. Stow tyre repair kit in load compartment.
15. Remove any excess sealant using a cloth.
16. Take the label indicating maximum permitted speed from the sealant bottle and affix in the driver's field of view.
17. Continue driving immediately so that sealant is evenly distributed in the tyre. After driving approx. 10 km (but no more than 10 minutes), stop and check tyre pressure. Screw compressor air hose directly onto tyre valve and compressor when doing this.



If tyre pressure is more than 20 PSI/138 kPa, set it to the correct value. Repeat the procedure until there is no more loss of pressure.

If the tyre pressure has fallen below 20 PSI/138 kPa, the vehicle must not be used. Seek the assistance of your Holden Dealer.

18. Stow away tyre repair kit in load compartment.

Note

The driving comfort of the repaired tyre is severely affected, therefore have this tyre replaced.

If unusual noise is heard or the compressor becomes hot, turn compressor off for at least 30 minutes.

The built-in safety valve opens at a pressure of 100 PSI/690 kPa.

Note the expiry date of the kit. After this date its sealing capability is not longer guaranteed. Pay attention to storage information on sealant bottle.

Replace the used sealant bottle. Dispose of the bottle as prescribed by applicable laws.

The compressor and sealant can be used from approx. -30 °C.

The adapters supplied can be used to pump up other items e.g. footballs, air mattresses, inflatable dinghies etc. They are located on the underside of the compressor. To remove, screw on compressor air hose and withdraw adapter.

Wheel changing

Some vehicles are equipped with a tyre repair kit instead of a spare wheel ⇨ 145.

⚠Warning

All passengers must be out of the vehicle when it is being jacked.

Only jack the vehicle on hard, level surfaces.

Ensure moving parts of the jack are adequately lubricated before use.

Use the jack only at the designated lifting points. Use in other locations may result in the vehicle falling off the jack, or damage to the vehicle.

If using a jack (or hoist) other than the jack supplied with the vehicle, refer to the following pages in this chapter for the correct lifting positions.

Do not start or run the engine while the vehicle is supported by the jack.

Use the jack only for lifting the vehicle when changing wheels.

Do not get under a vehicle that is supported by a jack. No person should place any portion of their body under a vehicle that is supported by a jack.

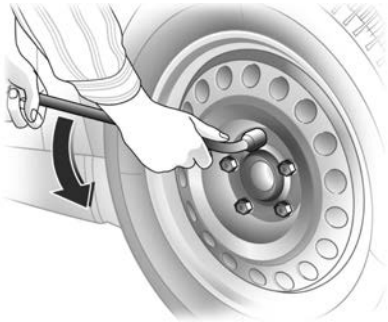
Vehicles with alloy wheels may have a steel spare wheel. Drive carefully and do not exceed 80 km/h when a combination of alloy and steel wheels are fitted on the vehicle. Although the spare tyre was fully inflated when the vehicle was new, it can lose air over time. Check the inflation pressure regularly. After installing the spare wheel on the vehicle, stop as soon as possible to check the inflation pressure is correct. Have the flat tyre repaired or replaced and installed back on the vehicle as soon as possible.

Make the following preparations and observe the following information:

- Park the vehicle on a level, firm and non-skid surface. The front wheels must be in the straight-ahead position.
- Apply the parking brake and engage first gear, reverse gear or **P**.
- Chock the wheel diagonally opposite the flat tyre with a suitable solid object.
- Remove the spare wheel and tools from inside the boot. The tools are located in the storage compartment underneath the spare wheel ⇨ 152.

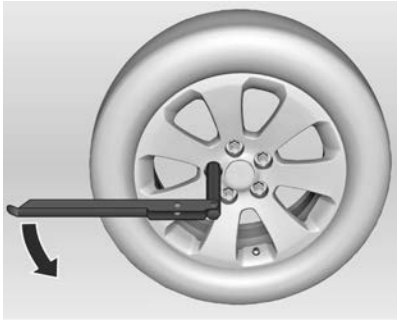
- Never change more than one wheel at once.
- Use the jack only to change wheels in case of puncture.
- If the ground on which the vehicle is standing is soft, a solid board (max. 1 cm thick) should be placed under the jack.
- No people or animals may be in the vehicle when it is jacked-up.
- Never crawl under a jacked-up vehicle.
- Do not start the vehicle when it is raised on the jack.
- Clean wheel nuts and thread before replacing the wheel.

1. Pull off the wheel cover.
2. Variant 1:



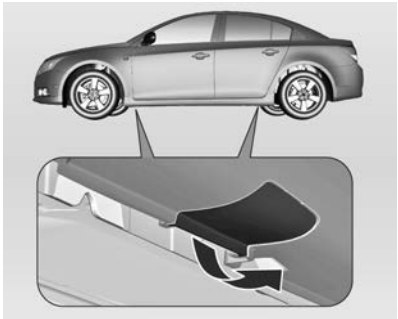
Install the wheel wrench ensuring that it locates securely and loosen each wheel nut by half a turn.

Variant 2:



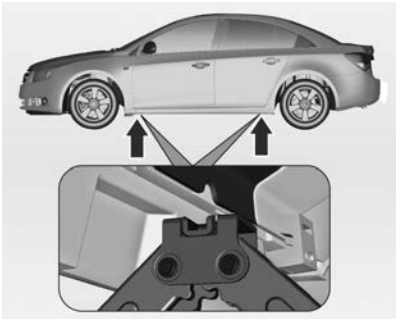
Fold out the wheel wrench and install ensuring that it locates securely and loosen each wheel nut by half a turn.

3. If the sill panel has a cover:

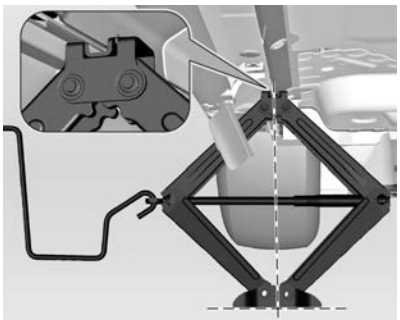


Place hand behind the edge of the cover on the sill panelling.

Pull down and out to remove the cover. The cover is attached by a tether.



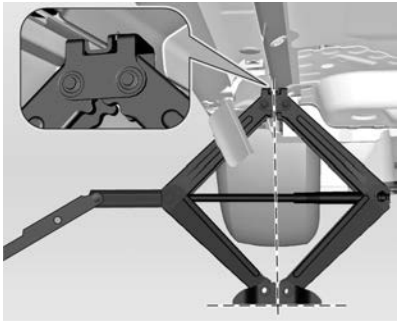
4. Ensure the jack is positioned correctly with the vehicle jacking points.
5. Variant 1:



Set the jack to the necessary height. Position it directly below the jacking point in a manner that prevents it from slipping.

Attach jack handle and with the jack correctly aligned rotate handle until wheel is clear of the ground.

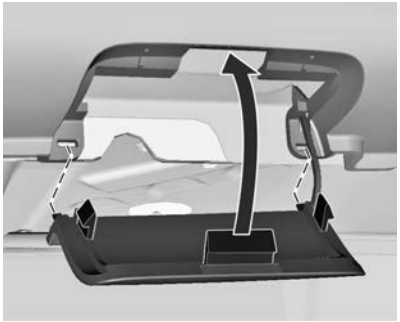
Variant 2:



Set the jack to the necessary height. Position it directly below the jacking point in a manner that prevents it from slipping.

Attach wheel wrench and with the jack correctly aligned rotate wheel wrench until wheel is clear of the ground.

6. Unscrew the wheel nuts.
7. Change the wheel.
8. Screw on the wheel nuts.
9. Lower vehicle.
10. Install the wheel wrench ensuring that it locates securely and tighten each nut in a crosswise sequence.
11. Align the valve hole in the wheel cover with the tyre valve before installing.
12. If the sill panel has a cover:



Reinstall cover.

Insert the two rear pins into the holes at the sill panelling and fold up the cover to engage.

13. Stow the replaced wheel ⇨ 152 and the vehicle tools ⇨ 142.
14. Check the tyre pressure of the installed tyre and also the wheel nut torque as soon as possible.

Have the defective tyre renewed or repaired.

⚠Warning

As soon as possible after changing a wheel, you should have the wheels tightened with a torque of 150 Newton metre and have the wheel balanced on the vehicle. Wheel bolts should be tightened evenly to the correct torque in a crisscross pattern while the vehicle is on the ground. Wheel bolts which have not been tightened properly could eventually allow the wheel to come off while the vehicle is moving.

Spare wheel

(If fitted)

The spare wheel is located in the boot beneath the floor covering. It is secured in the recess with a wing nut.

When replacing a wheel with the spare wheel, follow the appropriate steps to secure the removed wheel in the spare wheel well or boot:

Hatch with 17" alloy wheels and a 16" steel spare wheel

Stow in spare wheel well and secure with the wing nut.

Sedan with 17" or 18" alloy wheels and a 16" steel spare wheel

Stow in spare wheel well and secure with the wing nut.

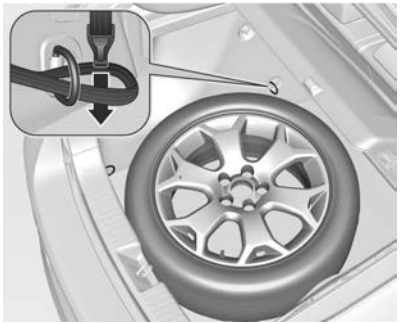
Sportwagon with 16" or 17" alloy wheels and a 16" steel spare wheel

Stow in spare wheel well and secure with the wing nut.

Hatch with 17" or 18" alloy wheels and a space saver spare wheel

The removed wheel must be stowed in the load compartment and secured with a strap. Vehicle tools ⇨ 142.

1. Position the wheel close to one sidewall of the load compartment.



2. Place the loop end of the strap through the front lashing eye on the appropriate side.
3. Place the hook end of the strap through the loop and pull it until the strap is fastened securely to the lashing eye.

4. Insert the strap through the spokes of the wheel as shown in the illustration.
5. Mount the hook to the rear lashing eye.
6. Tighten the strap and secure it using the buckle.

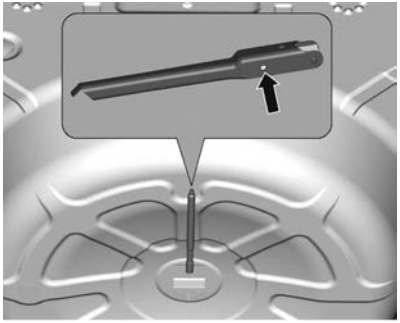
⚠ Danger

Always drive with folded up and engaged rear seat backrests when stowing a damaged full size wheel in the load compartment.

Sedan with 17" or 18" alloy wheels and a space saver spare wheel

The removed wheel must be stowed in the spare wheel well and secured with the wing nut and LONG wheel tub stud. Vehicle tools ⇨ 142.

1. Loosen and remove the SHORT wheel tub stud using the socket located in the side of the wheel nut wrench.



2. Install the LONG wheel tub stud and tighten using the socket located in the side of the wheel nut wrench.

3. Remove the plastic spacer from the jack package and stow safely.
4. Install the jack package over the LONG wheel tub stud.
5. Install the removed alloy wheel over the LONG wheel tub stud.
6. Secure the removed alloy wheel using the wing nut.

Note that when stowing the space saver wheel, it is necessary to refit the SHORT wheel tub stud.

Temporary spare wheel

Caution

The use of a spare wheel that is smaller than the other wheels could affect driveability. Have the defective tyre replaced as soon as possible.

Only mount one temporary spare wheel. Do not drive faster than 80 km/h. Take curves slowly. Do not use for a long period of time.

Directional tyres

Fit directional tyres such that they roll in the direction of travel. The rolling direction is indicated by a symbol (e.g. an arrow) on the sidewall.

The following applies to tyres fitted opposing the rolling direction:

- Driveability may be affected. Have the defective tyre renewed or repaired as soon as possible.
- Do not drive faster than 80 km/h.
- Drive particularly carefully on wet and snow-covered road surfaces.

Jump starting

Do not start with quick charger.

A vehicle with a discharged battery can be started using jump leads and the battery of another vehicle.

⚠Warning

Be extremely careful when starting with jump leads. Any deviation from the following instructions can lead to injuries or damage caused by battery explosion or damage to the electrical systems of both vehicles.

⚠Warning

Avoid contact with eyes, skin, fabrics and painted surfaces. The fluid contains sulphuric acid which can cause injuries and damage in the event of direct contact.

⚠ Warning

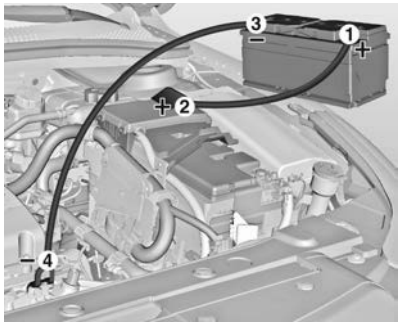
Never expose the battery to naked flames or sparks.

Wear eye protection and protective clothing when handling a battery.

Do not lean over the battery during jump starting.

Do not allow the terminals of one lead to touch those of the other lead.

- A discharged battery can already freeze at temperatures of 0 °C. Defrost the frozen battery before connecting jump leads.
- Use a booster battery with the same voltage (12 volts). Its capacity (Ah) must not be much less than that of the discharged battery.
- Use jump leads with insulated terminals and a cross section of at least 16 mm^2 (25 mm^2 for diesel engines).
- Do not disconnect the discharged battery from the vehicle.
- Switch off all unnecessary electrical consumers.
- The vehicles must not come into contact with each other during the jump starting process.
- Apply the parking brake, transmission in neutral, automatic transmission in **P**.
- Open the positive terminal protection caps of both batteries.



Lead connection order:

1. Connect the red lead to the positive terminal of the booster battery.
2. Connect the other end of the red lead to the positive terminal of the discharged battery.
3. Connect the black lead to the negative terminal of the booster battery.
4. Connect the other end of the black lead to a vehicle grounding point, such as the engine block or an engine mounting bolt. Connect as far away from the discharged battery as possible.

Route the leads so that they cannot catch on rotating parts in the engine compartment.

To start the engine:

1. Start the engine of the vehicle providing the jump.
2. After 5 minutes, start the other engine. Start attempts should be made for no longer than 15 seconds at intervals of 1 minute.

3. Allow both engines to idle for approx. 3 minutes with the leads connected.
4. Switch on electrical consumers (e.g. headlights, heated rear window) of the vehicle receiving the jump start.
5. Reverse above sequence exactly when removing leads.

Towing

Towing the vehicle

Disengage cap at bottom of front fascia by pushing in at bottom right corner.

The towing eye is stowed with the vehicle tools ⇨ 142.

Screw in the towing eye as far as it will go until it stops in a horizontal position.

Attach a tow rope to the towing eye.

The towing eye must only be used for towing and not for recovering the vehicle.

Switch on ignition to release steering column lock and to permit operation of brake lights, horn and windscreen wipers.

Transmission in neutral.

Caution
Drive slowly. Excessive force can damage the vehicle.

When the engine is not running, considerably more force is needed to brake and steer.

To prevent the entry of exhaust fumes from the towing vehicle, switch on the air recirculation and close the windows.

Vehicles with automatic transmission: The vehicle must be towed facing forwards, not faster than 80 km/h nor further than 100 km. In all other cases and when the transmission is defective, the front axle must be raised off the ground.

Seek the assistance of your Holden Dealer.

After towing, unscrew the towing eye and replace cap.

The best method is to have the vehicle transported using a recovery vehicle.

Appearance care

Exterior care

Washing

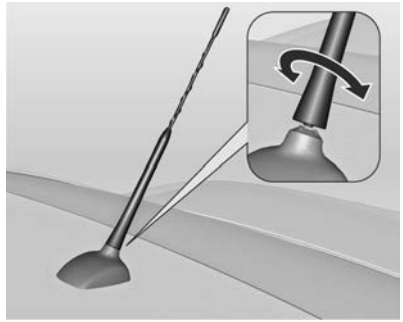
The paintwork of your vehicle is exposed to environmental influences. Wash and wax your vehicle regularly. When using automatic vehicle washes, select a programme that includes waxing.

Bird droppings, dead insects, resin, pollen and the like should be cleaned off immediately, as they contain aggressive constituents which can cause paint damage. Failure to do so may result in permanent damage, particularly in hot weather conditions.

Road bloom is a gradual build up of road and environmental grime. This should be removed with a paint cleaner product, in addition to normal washing, on an annual basis.

If using a vehicle wash, comply with the vehicle wash manufacturer's instructions. Never use an automatic wash that requires anything touching the paint (other than water).The windscreen wipers and rear window wiper must be switched off.

Remove antenna and external accessories such as roof racks etc.



To remove the roof antenna, rotate it anti-clockwise. To install the roof antenna, rotate it clockwise.

If you wash your vehicle by hand, make sure that the insides of the wheel housings are also thoroughly rinsed out.

Clean edges and folds on opened doors and the bonnet, as well as the areas they cover.

Caution

Always use a cleaning agent with a pH value of 4 to 9.

Do not use cleaning agents on hot surfaces.

Have the door hinges of all doors greased by your Holden Dealer.

⚠Warning

Do not clean the engine compartment with a steam-jet or high-pressure jet cleaner.

Thoroughly rinse and chamois off the vehicle. Rinse chamois frequently. Use a separate chamois for painted and glass surfaces: remnants of wax on the windows will impair vision.

Do not use hard objects to remove spots of tar. Use tar removal spray on painted surfaces.

Exterior lights

Headlight and other light covers are made of plastic. Do not use any abrasive, solvent based cleaners or caustic agents and do not clean them dry.

Polishing and waxing

Wax the vehicle regularly (at the latest when water no longer beads).

Polishing is necessary only if the paint has become dull or if solid deposits have become attached to it.

Paintwork polish with silicone forms a protective film, making waxing unnecessary.

Plastic body parts must not be treated with wax or polishing agents.

Windows and windscreen wiper blades

Use a soft lint-free cloth or chamois leather together with window cleaner and insect remover.

When cleaning the rear window from inside, always wipe in parallel to the heating element to prevent damage.

Clean smearing wiper blades with a soft cloth and window cleaner.

Wheels and tyres

Do not use high-pressure jet cleaners.

Clean rims with a pH-neutral wheel cleaner.

Rims are painted and can be treated with the same agents as the body.

Paintwork damage

Rectify minor paintwork damage with a touch-up pen before rust forms. Have more extensive damage or rust areas repaired by your Holden Dealer.

Underbody

Some areas of the vehicle underbody have a PVC undercoating while other critical areas have a durable protective wax coating.

After the underbody is washed, check the underbody and have it waxed if necessary.

Bitumen/rubber materials could damage the PVC coating. Have underbody work carried out by your Holden Dealer.

Interior care

Interior and upholstery

Only clean the vehicle interior, including the instrument panel fascia and panelling, with a dry cloth or interior cleaner.

The instrument cluster and the displays should only be cleaned using a soft damp cloth. If necessary use a weak soap solution.

Clean fabric upholstery with a vacuum cleaner and brush. Remove stains with an upholstery cleaner.

Clothing fabrics may not be colourfast. This could cause visible discolourations, especially on light-coloured upholstery. Removable stains and discolourations should be cleaned as soon as possible.

Clean seat belts with lukewarm water or interior cleaner.

Caution

Close Velcro fasteners as open Velcro fasteners on clothing could damage seat upholstery.

Leather

Clean regularly using a leather revitaliser or mild detergent.

- Apply revitaliser using a lint free cloth and rub it onto the leather.
- Do not saturate the leather with the cleaner and do not pour on directly.
- Allow to dry naturally.
- For deeply embedded soil and dirt, use a leather cleaner.
- After using a leather cleaner/ revitaliser, apply a leather protector.

  A leather protector is designed to repel dirt and provides water resistance.

Note

- Clean and protect leather at least twice a year.
- Do not use synthetic cloths or brushes.
- Leather is a natural product and may have natural markings, variation in graining, colouring and wrinkling.
- Leather has an elasticity and may stretch. This is a natural characteristic of leather.

Plastic and rubber parts

Plastic and rubber parts can be cleaned with the same cleaner as used to clean the body of the vehicle. Use interior cleaner if necessary. Do not use any other agent. Avoid solvents and petrol in particular. Do not use high-pressure jet cleaners.

Service and maintenance

General information 160
Recommended fluids, lubricants and parts 161

General information

Service information

In order to ensure economical and safe vehicle operation and to maintain the value of your vehicle, it is of vital importance that all maintenance work is carried out at the proper intervals as specified.

See your Service booklet for the service schedules and for more information.

Engine oil life system (Diesel engine only)

This vehicle has a computer system that lets you know when to change the engine oil and filter. How frequently you have to change the oil depends on your driving patterns, engine RPM and engine temperature. When the system has calculated that oil life has been diminished, it will indicate that an oil change is necessary by displaying a vehicle message **CodE 82** or **Change Engine Oil Soon** in the Driver Information Centre (DIC) ⇨ 72.

When the change engine oil soon message displays in the DIC, have the engine oil and filter changed as soon as possible within the next 1,000 km. It is possible that, if you are driving under the best conditions, the oil life system may not indicate that an oil change is necessary for a longer period than that shown in the service schedule. However, the engine oil and filter must be changed in accordance with the service schedules outlined in your Service booklet.

Recommended fluids, lubricants and parts

Recommended fluids and lubricants

Only use products that meet the recommended specifications. Damage resulting from the use of products not in line with these specifiations will not be covered by the warranty.

⚠Warning

Operating materials are hazardous and could be poisonous. Handle with care. Pay attention to information given on the containers.

Engine oil

Engine oil is identified by its quality and its viscosity. Quality is more important than viscosity when selecting which engine oil to use. The oil quality ensures e.g. engine cleanliness, wear protection and oil aging control, whereas viscosity grade gives information on the oil's thickness over a temperature range.

Engine oil quality

dexos 1 = 1.6L Petrol engine, 1.8L Petrol engine

dexos 2 = 1.4L Petrol engine, 2.0L Diesel engine

Selecting the right engine oil

Selecting the right engine oil depends on the proper oil specification and viscosity grade.

Use and ask for engine oils with the dexos certification mark. Oils meeting the requirements of your vehicle should have the dexos certification mark on the container. This certification mark indicates that the oil has been approved to the dexos specification.

Your vehicle was filled at the factory with dexos approved engine oil.

Use only engine oil that is approved to the dexos specification or an equivalent engine oil of the appropriate viscosity grade.

If you are unsure whether your oil is approved to the dexos specification, ask your service provider.

Use of substitute engine oils if dexos is unavailable: In the event that dexos approved engine oil is not available at an oil change or for maintaining proper oil level, you may use substitute engine oil of the qualities mentioned above. Use of oils that do not meet the dexos specification, however, may result in reduced performance or engine damage under certain circumstances.

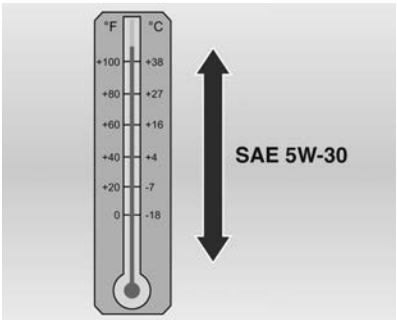
Topping up engine oil

Engine oils of different manufacturers and brands can be mixed as long as they comply with the required engine oil (quality and viscosity).

Engine oil additives

The use of engine oil additives could cause damage and invalidate the warranty.

Engine oil viscosity grades



SAE 5W-30 is the best viscosity grade for your vehicle. Do not use other viscosity grade oils such as SAE 10W-30, 10W-40 or 20W-50.

For acceptable alternative viscosity grade oils ⇨ 168.

When selecting an oil of the appropriate viscosity grade be sure to always select an oil that meets the dexos specification.

The SAE viscosity grade gives information of the thickness of the oil. Multigrade oil is indicated by two figures.

The first figure, followed by a W, indicates the low temperature viscosity and the second figure the high temperature viscosity.

Coolant and antifreeze

Use only silicate-free long life coolant (LLC) antifreeze.

The system is factory filled with coolant designed for excellent corrosion protection and frost protection down to approx. -38 °C. This concentration should be maintained all year round. The use of additional coolant additives that intend to give additional corrosion protection or seal against minor leaks can cause function problems. Liability for consequences resulting from the use of additional coolant additives will be rejected.

Brake and clutch fluid

Only use DOT4 brake fluid.

Over time, brake fluid absorbs moisture which will reduce braking effectiveness. The brake fluid should therefore be replaced at the specified interval.

Brake fluid should be stored in a sealed container to avoid water absorption.

Ensure brake fluid does not become contaminated.

⚠Warning

Using brake fluid other than GM recommended brake fluid may cause corrosion to components of the braking system and reduced braking performance.

Use only new brake fluid. Use of old, used or inferior brake fluid may endanger the functioning of the brake system.

Power steering fluid

Only use Dexron VI fluid.

Automatic transmission fluid

Only use Dexron VI fluid.

Technical data

Vehicle identification 164
Vehicle data 168

Vehicle identification

Vehicle Identification Number

The Vehicle Identification Number is visible through the windscreen.

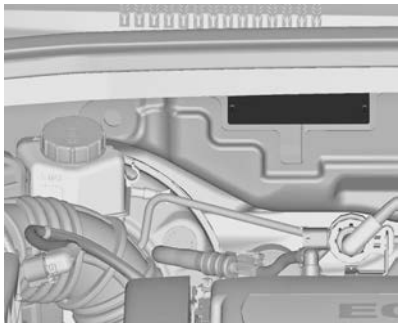
A further label is located in the vehicle floor on the right-hand side under a cover between the front door and seat.

Identification plate

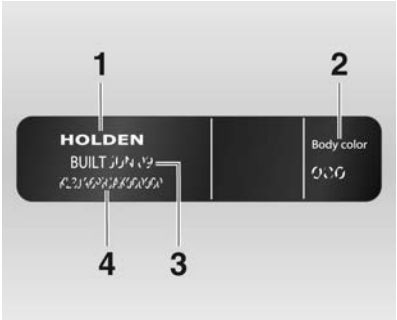
An identification label is located on the front left door frame.

Information on identification label:

1 = Approval number
2 = Manufacturer
3 = Category
4 = Number of seats
5 = Vehicle identification number
6 = Compliance date



A further identification plate is located under the bonnet on the dash panel.

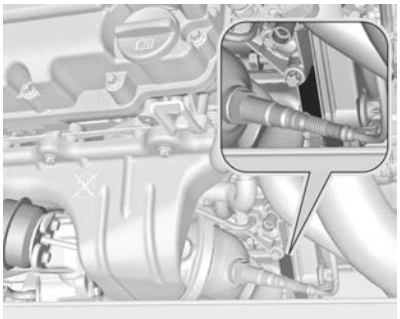


Information on identification plate:

1 = Manufacturer
2 = Body color
3 = Build date
4 = Vehicle identification number

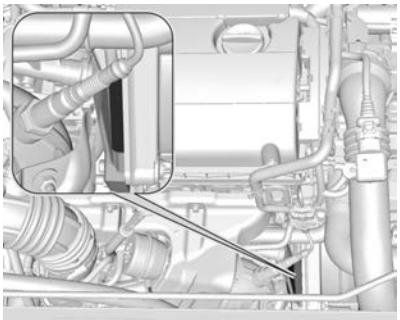
Engine serial number

1.4L Petrol engine



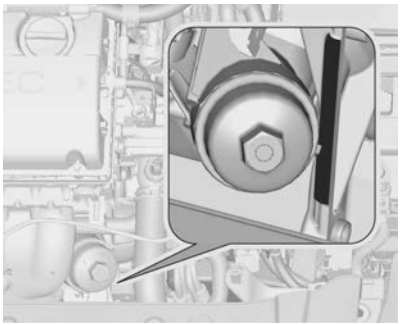
The engine serial number is located in the front part of the engine compartment.

1.6L Petrol engine



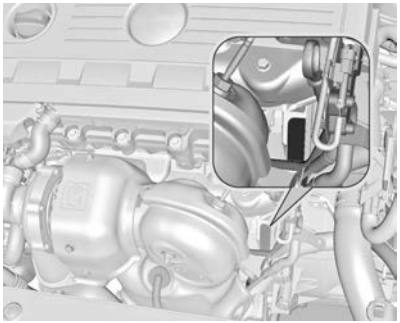
The engine serial number is located in the front part of the engine compartment.

1.8L Petrol engine



The engine serial number is located next to the oil filter.

2.0L Diesel engine



The engine serial number is located under the centre branch of the exhaust manifold.

Vehicle data
Recommended fluids and lubricants

Manufacturer's specifications

Engine oil specification

	Engine oil specification	Best viscosity grade for the vehicle	Alternative viscosity
1.4L Petrol	dexos 2	5W-30	0W-30
1.6L Petrol	dexos 1	5W-30	0W-30
1.8L Petrol	dexos 1	5W-30	0W-30
2.0L Diesel	dexos 2	5W-30	0W-30 or 5W-40

Fluids/Lubricants

Usage	Fluid/Lubricant
Coolant specification	50% clean water and 50% Dexcool anti-freeze coolant, conforming to specification number GM6277M
Brake & clutch fluid	DOT 4 Hydraulic brake fluid, conforming to specification number GMW 3356
Power steering fluid	Dexron - VI Auto trans fluid
Automatic transmission fluid	Dexron - VI Auto trans fluid

Usage	Fluid/Lubricant
Manual transmission fluid	1.6L Petrol: GM Part Number 93165694 (BOT303, Low Viscosity 70W)
	1.8L Petrol: SAE 75W-90

Engine data

Engine	1.4L Petrol	1.6L Petrol	1.8L Petrol	2.0L Diesel
Number of cylinders	4	4	4	4
Piston displacement [cm^3]	1364	1598	1796	1998
Engine power [kW] at rpm	Refer to holden.com.au			
Torque [Nm] at rpm	Refer to holden.com.au			
Fuel type	Petrol	Petrol	Petrol	Diesel
Octane rating RON				
Minimum	91	91	91	–
Recommended	**91**	**95**	**91**	–

Vehicle weight

Additional weight

Maximum vehicle payloads

Vehicle	Occupants (Average 68 kg each)	Luggage (kg)	Total Load (kg)
4 Door sedan	5	68	408
5 Door hatchback	5	68	408
Sportwagon	5	68	408

Maximum front and rear axle loads

Vehicle	Front axle loads (kg)	Rear axle loads (kg)
1.4L Petrol	1060	1000
1.6L Petrol	1160	1000
1.8L Petrol	1060	1000
2.0L Diesel	1160	1000

Vehicle dimensions

4 Door sedan

	EQUIPE/CDX	SRi/SRi-V
Length [mm]	4615	4629
Width without exterior mirrors [mm]	1797	1797
Height (without antenna) [mm]	1477	1477
Wheelbase [mm]	2685	2685

5 Door hatchback

	EQUIPE/CDX	SRi/SRi-V
Length [mm]	4519	4543
Width without exterior mirrors [mm]	1797	1797
Height (without antenna) [mm]	1477	1477
Wheelbase [mm]	2685	2685

Sportwagon

	CD/CDX
Length [mm]	4675
Width without exterior mirrors [mm]	1797
Height (without antenna) [mm]	1521
Wheelbase [mm]	2685

Capacities

Engine oil

Engine	1.4L Petrol	1.6L Petrol	1.8L Petrol	2.0L Diesel
including Filter [l]	4.0	4.5	4.5	5.4

Engine coolant

Engine	1.4L Petrol	1.6L Petrol	1.8L Petrol	2.0L Diesel
capacity [l]	7.1	6.5	6.5	7.5

Fuel tank

Petrol/diesel, nominal capacity [l]	60

Tyre pressures

4 Door sedan, 5 Door hatchback

Tyre size Wheel size and profile	Recommended pressure													
	Normal load				Eco normal load				Maximum load				Spare	
	Front		Rear		Front		Rear		Front		Rear		–	
	kPa	PSI	kPa	PSI	kPa	PSI	kPa	PSI	kPa	PSI	kPa	PSI	kPa	PSI
215/50 R17 91V 17 x 7.0, J	250	36	250	36	270	39	270	39	270	39	300	44	–	–
225/50 R17 94V 17 x 7.0 , J	250	36	250	36	270	39	270	39	270	39	300	44	–	–
235/45 R18 94 V 18 x 8.0 , J	250	36	250	36	270	39	270	39	270	39	270	39	–	–
205/60 R16 98N 16 x 6.5 , J	–	–	–	–	–	–	–	–	–	–	–	–	300	44
T115/70 R16 92M 16 x 4.0 , J	–	–	–	–	–	–	–	–	–	–	–	–	420	61

Sportwagon

Tyre size Wheel size and profile	Recommended pressure													
	Normal load				Eco normal load				Maximum load				Spare	
	Front		Rear		Front		Rear		Front		Rear		–	
	kPa	PSI	kPa	PSI	kPa	PSI	kPa	PSI	kPa	PSI	kPa	PSI	kPa	PSI
205/60 R16 92V 16 x 6.5 , J	250	36	250	36	270	39	270	39	270	39	300	44	–	–
215/50 R17 91V 17 x 7.0 , J	250	36	250	36	270	39	270	39	270	39	300	44	–	–
225/50 R17 94V 17 x 7.0 , J	250	36	250	36	270	39	270	39	270	39	300	44	–	–
205/60 R16 98N 16 x 6.5 , J	–	–	–	–	–	–	–	–	–	–	–	–	300	44

Customer information

Owner Assistance..... 176

Customer Information

Owner Assistance

Holden Customer Care

At Holden, we want you to be completely satisfied with your ownership experience. This applies to your vehicle and any Holden representative you may deal with.

Refer below for two options for seeking assistance with your query.

Holden Dealerships

Holden encourages you to seek assistance from your Holden Dealership. Each Holden Dealership is equipped to manage any sales, servicing, parts or technical query.

In the instance that you wish to escalate a query to a higher level of staff, further options are available to you.

As a first step, Holden suggests you discuss any concern with the relevant Department Manager (Sales Manager or Service Manager).

Alternatively, the Dealership General Manager or Dealer Principal will also be happy to assist you.

Holden Customer Care Office

Should you wish to speak to a Holden representative, you are welcome to contact the Holden Customer Care team.

Refer below for operating hours and various methods of communication.

Operating Hours

Weekdays: 8am – 7pm AEST
Saturday: 9am – 1pm AEST

Telephone

Holden Customer Care can be telephoned from anywhere within Australia for only the cost of a local call.

The contact number is:
1800 033 349

Email

Alternatively, you may prefer to email Holden at:
holdencustomercare@gm.com

Written Correspondence

You can also write to Holden at the address below:

The Manager
Holden Customer Care Centre
GPO Box 1714
Melbourne 3001

Your written correspondence should clearly outline your concern or query and include:

- Your name and address
- Telephone numbers, both private and business
- Servicing dealer's name and address
- Vehicle model
- Vehicle identification number (I.S.O.V.I.N.), refer to the inside front cover of the Service/ Warranty Booklet in your vehicle's glove box
- Date of purchase
- Current odometer reading

Most of this information will be found on the Vehicle Identification Certificate, located inside the front cover of the Service/Warranty Booklet in your vehicle's glove box.

Before you write however, remember that the telephone is the quicker and more efficient means of communication.

New Zealand

The information in this Owner's Handbook applies primarily to Australian Holden vehicles and there may be some differences to the Warranty and Owner Assistance provisions for New Zealand.

Applicable details for New Zealand are set out in the Holden Warranty and Owner Assistance Information booklet enclosed in the New Zealand glove box wallet.

New Zealand Assistance can be reached on:

0800 HOLDEN (**0800 465 336**)

This number provides access to New Zealand Roadside Assistance as well as New Zealand Customer Care.

Alternatively, you may prefer to email Holden at:

holdencustomercare@gm.com

You can also write to Holden at the address below:

The Manager
Holden Customer Care Centre
P.O. Box 11195
Ellerslie
Auckland 1542
New Zealand

Index

A

Accessories and vehicle modifications 117
Adjustable air vents 89
Airbag and belt tensioners 66
Airbag system 40
Air conditioning regular operation 90
Air conditioning system 83
Air intake 90
Antilock brake system 101
Antilock brake system (ABS) 67
Anti-theft alarm system 27
Apply footbrake 70
Armrest..... 36, 37
Armrest storage 50
Automatic light control 78
Automatic locking 25
Automatic transmission 97

B

Battery discharge protection 82
Bonnet 118
Brake and clutch fluid..... 161
Brake and clutch system 67
Brake assist 102
Brake fluid 127
Brakes 101
Bulb replacement 128

C

Capacities 173
Catalytic converter 96
Central locking system 21
Charging system 66
Child locks 25
Child restraint installation locations 46
Child restraint systems 43
Climate control 14
Clock..... 60
Colour-Info-Display..... 71
Control indicators..... 64
Control of the vehicle 92
Convex shape 29
Coolant and antifreeze..... 161
Cruise control 70, 104
Cupholders 49
Curtain airbag system 43
Customer assistance offices..... 176
Customer satisfaction procedure 176

D

Danger, Warnings and Cautions ... 3
Diesel fuel system bleeding 128
Diesel particle filter..... 69, 95
Door open 70
Driver Information Center..... 70

E

Electric adjustment 29
Electronic climate control system 85
Electronic driving programmes 99
Electronic key system..... 20
Electronic Stability Control . . 68, 103
Electronic Stability Control off..... 68
Engine air filter..... 125
Engine compartment fuse box ... 138
Engine compartment overview… 120
Engine coolant 126
Engine coolant temperature gauge 63
Engine data 169
Engine exhaust 95
Engine oil 124, 161
Engine oil pressure 69
Entry lighting 82
Exit lighting 82
Exterior care 157
Exterior light 70
Exterior lighting 11

F

Fault 99
Fixed air vents 90
Fog light 70
Fog lights 130
Folding mirrors 29
Footbrake..... 70
Front airbag system 41
Front fog lights 80
Fuel for diesel engines 109
Fuel for petrol engines 109
Fuel gauge 62
Fuses 137

G

General information 111
Glovebox 49

H

Halogen headlights 128
Hand brake..... 102
Hazard warning flashers 79
Headlight flash 79
Head restraint adjustment 6
Head restraints 33
Heated mirrors 29
Heated rear window 32
Heating 36
High beam 70, 79
Horn 12, 58

I

Identification plate 165
Ignition switch positions 93
Immobiliser 28, 69
Instrument panel fuse box 140
Instrument panel illumination 137
Instrument panel illumination control 81
Instrument panel overview 9
Instrument panel storage..... 48
Interior care 159
Interior lights 81, 136
Interruption of power supply 100
Introduction 3
Isofix child restraint systems 47

J

Jump starting 154

K

Keys 19

L

Lashing eyes 54
Light switch 78
Load compartment 25, 50
Load compartment cover 52
Loading information 56
Low fuel 69

M

Malfunction indicator light 67
Manual anti-dazzle 30
Manual mode 99
Manual transmission 101

Mirror adjustment 7
Misted light covers 80

N
New vehicle running-in 92
Number plate light 135

O
Odometer 62
Outside temperature 60
Overrun cut-off 95

P
Parking 18, 95
Parking assist 106
Parking brake 102
Performing work 118
Pollen filter 90
Power outlets 61
Power steering..... 67
Power steering fluid..... 126
Power windows 30
Preheating 68

R
Radio remote control 19
Reading lights 81
Rear floor storage cover 53
Rear storage..... 51
Rear view camera 107
Rear window wiper/washer 59
Recommended fluids and lubricants 161, 168
Refuelling 110
Reversing lights 80
Roof load..... 56
Roof rack 55

S
Safety net 54
Seat adjustment 5, 35
Seat belt 7
Seat belt reminder 66
Seat belts 37
Seat position 34
Selector lever 97
Service 90, 160
Service display 63
Service information 160
Service vehicle soon 67
Side airbag system 42
Side turn signal lights 135
Spare wheel 152
Speedometer 61
Sport mode..... 98
Starting off 16
Starting the engine 93
Steering wheel adjustment 8, 57
Steering wheel controls 57
Storage compartments..... 48
Sunglasses storage 50
Sun visors 32
Symbols 3

T
Tachometer 62
Tail lights 130
Three-point seat belt 39
Tools 142
Top-tether child restraint systems 47
Tow bar..... 111
Towing the vehicle 156
Traction Control system 103
Traction Control system off..... 68
Trailer towing 112
Transmission 15
Transmission display 97
Tread depth 143
Trip computer 74
Trip odometer 62
Turn and lane-change signals 80
Turn signal 66
Tyre chains 144
Tyre pressure 143
Tyre pressures 174
Tyre repair kit 145

U
Ultrasonic parking assist 68
Unlocking..... 4

Upholstery..... 159
Using this manual 3

V

Vehicle battery 127
Vehicle dimensions 171
Vehicle Identification Number 164
Vehicle messages 72
Vehicle personalisation 75
Vehicle storage..... 117
Vehicle unlocking 4
Vehicle weight 170

W

Warning chimes 73
Washer and wiper systems 13
Washer fluid 127
Wheel changing 148
Wheel covers 144
Wheels and tyres 143
Windscreen wiper/washer 58
Wiper blade replacement 128